



Established in  
ENGLAND . . 1859  
AUSTRALASIA 1885

Registered as a Newspaper and  
PUBLISHED WEEKLY AT  
42 CANNON ST., LONDON, E.C.4

Telephone: 3617 CENTRAL (3 lines).  
Telegrams: CHEMICUS, CANNON,  
LONDON (charged as two words only).

No. 2,043. Vol. XCI.

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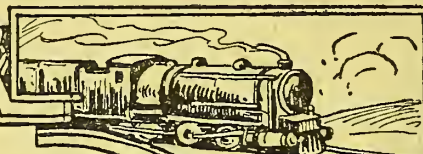
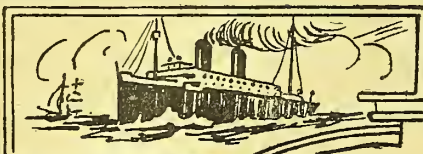
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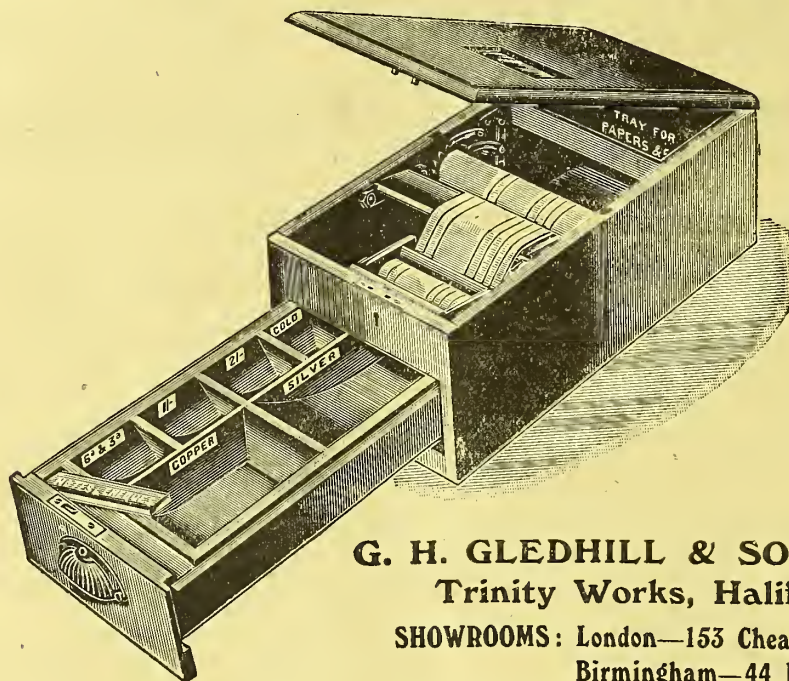
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# Maw's Page.

No. 388  
22.3.1919

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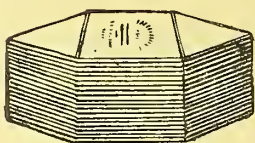
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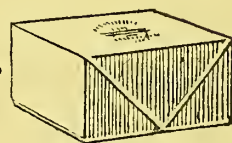
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March 21.

BOURNEMOUTH—Gervis Hall, 7.30 p.m.

Speaker: Mr. P. F. ROWSELL.

March 25.

LONDON (South-West)—Streatham Public Hall,

8.15 p.m. Speaker: Mr. W. S. GLYN-JONES.

ROCHDALE—Ritz Café, Yorkshire Street, 3 p.m.

Speaker: Mr. H. SAUNDERS.

March 26.

IPSWICH—Crown &amp; Anchor, Westgate St., 7.30 p.m.

Speaker: Mr. JOHN KEALL.

LANCASTER—King's Arms Hotel, 3 p.m.

Speaker: Mr. HUGO WOLFF.

SHEFFIELD—Literary and Philosophical Society's

Room, Church Street, 8.30 p.m.

Speaker: Mr. P. F. ROWSELL.

March 27.

LONDON (Western)—316 Regent Street, W.

(opposite the Polytechnic), 8.30 p.m.

Speaker: Mr. P. F. ROWSELL.

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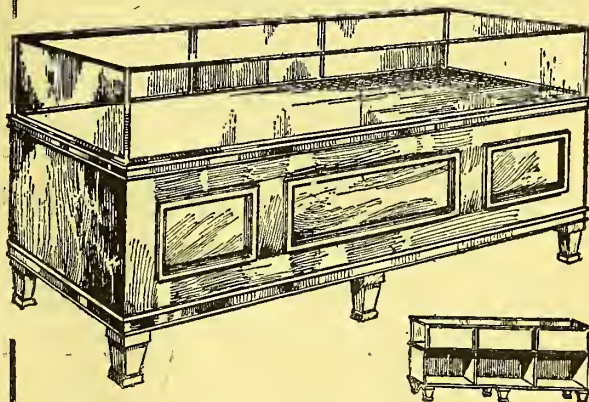
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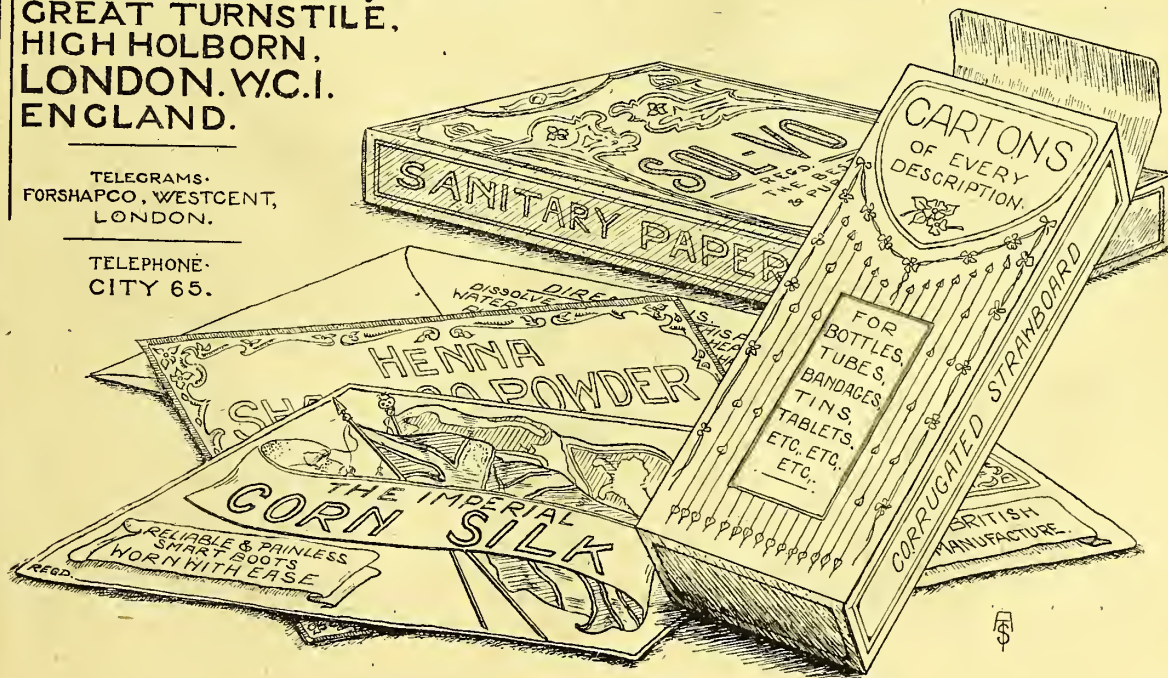
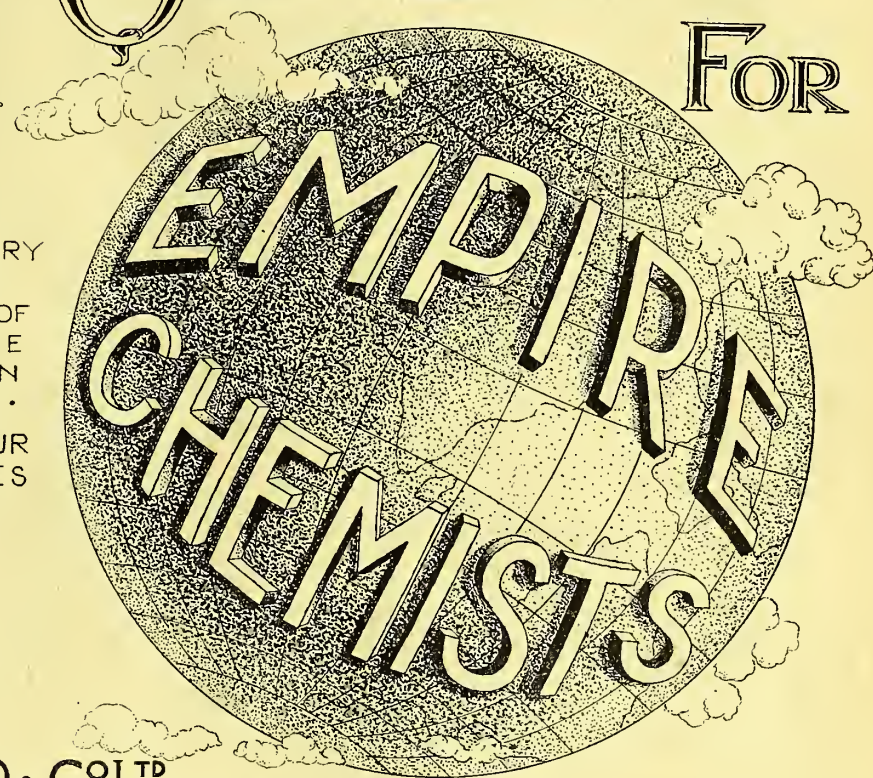
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 IN YOUR WINDOW  
 NOW!

**EXPENSIVE MODEL LENT FREE.**

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-**. These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

**ORDER FORM.**

NAME .....

Address .....

Date .....

**To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.**

*Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense) to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.*

Yours truly,

Signature .....

**PRICES OF KER-NAK:** 1/3 size, 12/6 doz.; 3/- size, 28/- doz. (Minimum Prices Face Value)



## THE VERDICT OF DISCRIMINATING CRITICS

"I have a high opinion of M. & J. Chemicals. Aspirin M. & J. does not cause pyrosis, that other makes have done."—M.B., C.M.

"I have compared M. & J. Aspirin with other makes, but get quicker physiological action from M. & J. than with any other brand."—M.B., B.S.

"I have used your Tablets with the most perfect and satisfactory results. The patients I treated with your tablets did not complain of either sickness or depression."—L.R.C.P., L.R.C.S.

"I find my customers prefer your Aspirin Tablets to any other make. Therapeutically they are excellent and they are compressed just to the right point."—A Pharmacist.

Acetyl-Salicylic Acid, B.P., Tablets, 5 gr., bts. of 25, 6/- per doz.  
(M. & J. Brand) " " 100, 20/6 "

Choice of neat labels.  
Prompt dispatch.

Own name and address.  
Carriage Paid on 40/- orders.



**MENLEY & JAMES, Ltd.,**

**"Menley House," Farrington Road, LONDON, E.C. 1**

Contractors to H.M. WAR OFFICE.

Works—CAMBERWELL, LONDON, S.E.

## The FRENCH Natural Mineral Water.

# VICHY-CÉLESTINS

AND THE OTHER STATE SPRINGS OF VICHY.



We beg to remind the Trade that the above are being regularly imported and we have ample supplies always on hand.

VICHY-CÉLESTINS and the other State Springs of Vichy Waters are being continually prescribed by the leading Physicians, and Traders would do well at all times to carry a stock.

**THE VICHY WATERS ARE ON THE P.A.T.A. LIST, & SHOW RETAILERS A GOOD PROFIT**

CAUTION.—Each bottle from the STATE SPRINGS bears a neck label with the word "VICHY-ÉTAT" and the name of the SOLE AGENTS:

## INGRAM & ROYLE, LTD.,

Bangor Wharf, 45 Belvedere Road, LONDON, S.E., and at  
**LIVERPOOL and BRISTOL.**

*For  
Successful  
Advertising*

*Consult  
The firm in a Hundred*



**SMITHS  
ADVERTISING  
AGENCY LTD.**

100 FLEET STREET E.C.4.

Founded 1878

*Interviews by Appointment*

Telegrams { Advertising  
Fleet London.

Phone { City 8593  
(Clients Wire)

## CLINICAL THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.

40 DIFFERENT KINDS.

Special Quotations to Wholesale Buyers

THE

**"MATERMADRE"**

LENS FRONT

(Regd.)

**CLINICAL THERMOMETER.**

**P.A.T.A.**

MERCURY COLUMN SEEN AT A GLANCE.  
Made in Three Rapidities: Ordinary, 1 Minute and  $\frac{1}{2}$  Minute.

New Price List of Thermometers for  
every purpose, post free.

**PERKEN, SON & CO. LTD.**

ESTABLISHED 1852.

Contractors to H.M. Government.  
99 Hatton Garden, LONDON.



# 7d. EVERY TIME

After you've made up a 1/- Mixture, with half-a-dozen impatient customers "kicking their heels," and others, seeing Pharmacy full, pass on to your neighbours'.

**Just think—**

how much better it would be to have reliable remedies ready at hand for general complaints, such as Influenza, Neuralgia, Coughs, Fever, etc.

OWN NAME REMEDIES TO RETAIL, 1/3;  
8/- per doz.; 95/- per gross ASSORTED CARRIAGE PAID

OR PACKED TO YOUR OWN FORMULÆ WITH  
OWN LABELS : : : : : : :

**SHALL WE PACK YOURS?**

## QUICK SERVICE PAYS

**CARMOL Ltd.**  
Manufacturing Chemists

Washington Street  
BIRMINGHAM



# Gibbs's

## POPULAR Special Lines.

*Well advertised and attractively packed.*

Good Profits  
on all  
these lines.

Write for  
special  
Price List.

### FOR SPRING WINDS

		RETAIL PRICES.	
French Dentifrice	... ..	In 6d. cases	
Shaving Soap	... ..	In 7d. & 1/- sticks	(Enamel)
Cold Cream Foam	{ A vanishing cream }	.. 1 - pots	(attractive outers)
Complexion Cream	... ..	.. 1/- tubes	
Cold Cream Toilet Soap	... ..	.. 6d. tablets	
(In the pink wrapper)			

**D. & W. GIBBS, Ltd., The City Soap Works, LONDON, E. 1**



## CHANGE OF ADDRESS

Messrs. ROBARTES, Ltd., Proprietors and Manufacturers of "DECOLTENE," "DINKIE," and "DIADEM" Toilet Preparations, beg to announce that they have removed to their new premises :

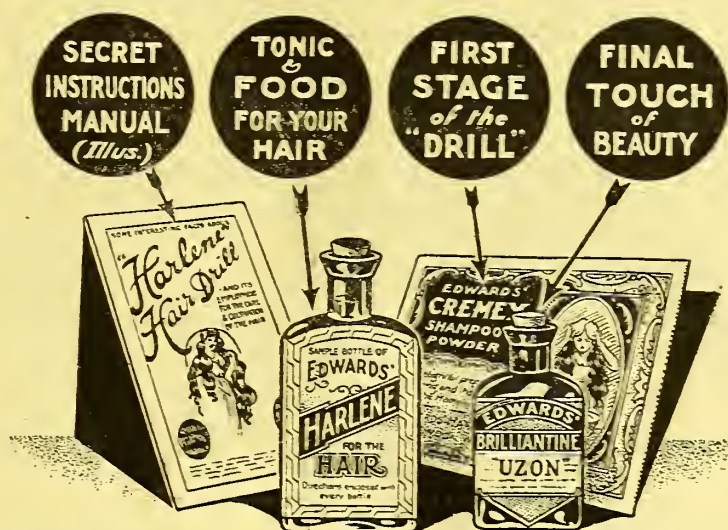
**Dyers Buildings, Holborn Bars, LONDON, E.C. 1.**

Telephone Number - - - - - Holborn 5692.

# The Popularity of "Harlene Hair Drill."

EVERY DAY EMPHASISES THE NECESSITY  
FOR MEETING THE PUBLIC DEMAND.

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties and increasing expense, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.



**NOTE**—The Contents of the Free HARLENE OUTFITS comprise:

- |                               |   |
|-------------------------------|---|
| 1. A Trial Bottle of Harlene. | 3. A Trial Bottle of "Uzon" Brilliantine. |
| 2. A "Cremex" Shampoo Powder. | 4. Book of Instructions.                  |

**FOLLOW THE TIDE OF SUCCESS.**

Watch the great Free Gift Advertising Campaign that brings the Customers to your Shop.

**HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?**

*No Chemist or Store can afford to be without  
: this unique line of Toilet Preparations :*

"HARLENE" FOR THE HAIR

"UZON" BRILLIANTINE

"ASTINE" VANISHING CREAM

"ASTINOL" AROMATIC FLUID.

"ASTOL" FOR GREY HAIR

"CREMEX" SHAMPOO POWDERS

"ASTINE" SHAVING STICK

For Particulars, Advertising Literature, &c., write to

**EDWARDS' HARLENE, Ltd.,** 20, 22, 24 and 26 LAMB'S CONDUIT  
STREET : : LONDON, W.C. 1.



# BRITISH MADE TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain.  
Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

Manufactured by  
**Venesta Ltd.**  
1, Great Tower St. E.C.  
London  
England

## THREE GOOD SELLERS THAT PAY WELL

### FROZOCLONE

(The original solid Eau de Cologne).  
(Regd.)



THE WORLD'S GREAT  
PERFUME AND  
REFRESHER IN  
SOLID FORM

Retails (P.A.T.A.)  
Minimum - 2/6  
giving at least 8d. Profit  
on each sale.  
22/- - - per doz.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

### CARNATE (Regd).

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum 1/6; 12/- per doz.

### ANALAX

(Reg. Pat. No. 310716).



The Ideal Fruity Laxative in Pastille Form.  
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3  
21/- per doz., stamped.

**R. DEMUTH'S LABORATORIES,** 68 Salusbury Road and  
Montrose Avenue, LONDON, N.W. 6

Telegraphic Address: "Boulbene London."

Telephone: 525 Willesden.

# ROBERT ADDIS & SON

LONDON BRUSH WORKS, LONDON FIELDS, E. 8.

## The "KING."

Registered No. 389697.

In placing our New Registered Brush before the public, we beg to point out its unique advantages.

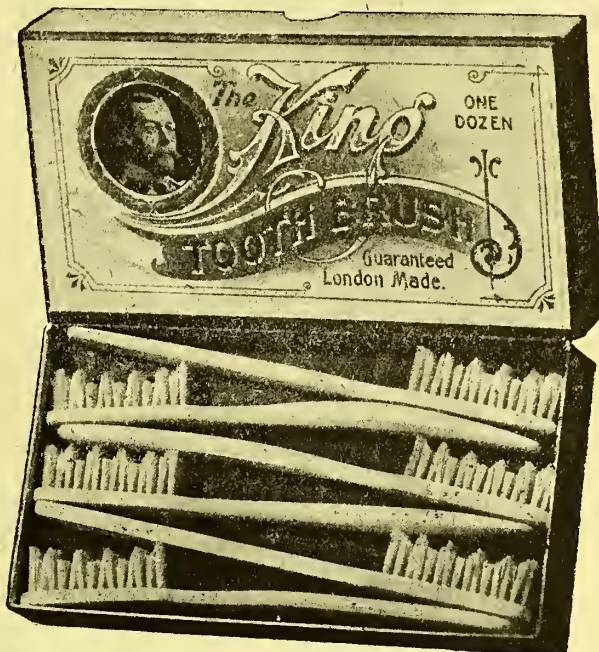
The brush is so shaped that the bristles not only come in contact with the rounded surfaces, but also penetrate between the teeth.

If the brush is used in an upward and downward direction, with the grain of the teeth, every foreign substance must be removed, thereby thoroughly cleansing the teeth and making decay impossible.

This brush is an absolute necessity to people with irregular teeth, as it is the only one which fully executes the thorough cleansing of the teeth, upon which the health so greatly depends.

4 rows and Ladies', packed in fancy boxes with high-class label ...	Per dozen. 18/-
Children's, packed in fancy boxes with high-class label ...	7/6

**TO BE OBTAINED FROM WHOLESALE HOUSES.**



FOR LARGE BUYERS.

## Toilet Paraffins

Also Brilliantines, Dry Shampoo (Liquid), Bay Rhums, Lime Creams, Pomade Hongroise, Shaving Sticks, Tooth Powders, Dental Creams, Vanishing Creams, Shampoo Powders, and all Toilet Goods.

**LOW PRICES for HIGH QUALITY.**

**STOKES & CO., Ltd.**

Manufacturing Chemists and Perfumers

Desk 11, 31-35 Lower Castle St., BRISTOL

## DISCOUNT FOR PROMPT CASH

Commencing April 1 we have decided to allow a discount of 2½% on orders of 3 doz., and 5% on orders of 6 doz. and upwards, providing you settle your account monthly. You will note that by paying your account promptly you will make extra profit in addition to the liberal profit that is now in force, viz.:

11/6 per doz.,  
retailed at 18/-  
19/6 per doz.,  
retailed at 30/-

Remember—

**ANZORA**  
Masters the Hair.

Obtainable  
from all Wholesalers.  
Showcards on Request.



Anzora Perfumery Co., Willesden Lane, London, N.W. 6.





# WILOWISP CRÈME d'ARAK

*An ideal  
VANISHING CREAM  
for the Face and Hands. Neither  
greasy nor sticky.*

**PROMPT SUPPLIES.  
ATTRACTIVELY PACKED.  
LIBERAL TERMS.**

**RETAIL (P.A.T.A.) 1/- PER POT.**

*Wholesale Price, 8/- per dozen. Window Show terms on application.*

Also "Arak Foam" Shampoo, "Henna" Shampoo, "Dry" Shampoo.

ALL WELL-KNOWN GOOD SELLING LINES.

**JOHN TIMPSON & CO., Ltd.,** 104 & 106 GOLDEN LANE, London, E.C. 1.

'GRAMS: "Porous, Barb, London."

'PHONES: City, 6910 6911.

# Enolin

## TOOTH PASTE

"STRONG" OR "MILD"

**The Super Paste.**

SOLE MANUFACTURERS & PROPRIETORS:

**A. & E. CARRERAS, Perfumers,**

Offices: 207 King St., Hammersmith, London, W. 6.

Telephone:  
HAMMERSMITH 600.

Telegrams:  
"ESOLINDOL, HAMMER,  
LONDON."





**The EVAN WILLIAMS'**  
ORIGINAL  
**Henna Shampoo**

**There is No Greater Attraction**  
or better selling line than  
**EVAN WILLIAMS'—**  
**THE ORIGINAL AND ONLY**  
**GENUINE HENNA SHAMPOO.**

The Evan Williams' factory is wholly devoted to the study, development and production of Evan Williams' Original Henna Shampoo. We are the Henna Specialists. Our reputation relies upon the maintenance of an extremely high standard of quality, therefore you are only safe in stocking the Evan Williams' Original Henna Shampoo—

**THE SHAMPOO WITH A REPUTATION.**

By stocking this wonderful Hair Rejuvenator and Beautifier you will attract the best class of trade to your establishment.

**The EVAN WILLIAMS Co. Ltd.**  
**18 & 18a OGLE ST. FOLEY ST. LONDON W.I.**

(3)



**The Finest Quality**  
**Aerated Waters are**  
**made only with**  
**the Finest Quality**  
**ESSENCES**

**Boake**  
**Roberts'**  
**Soluble Essences are**  
**of the finest quality**  
**and being extremely**  
**concentrated are**  
**most economical**

<b>Lemon</b>	<b>Ginger Ale</b>
<b>Orange</b>	<b>Stone Ginger (Cloudy)</b>
<b>Ginger</b>	<b>Clear Ginger Beer</b>
<b>Raspberry</b>	<b>Kola Champagne</b>
<b>Strawberry</b>	<b>Lime Juice and Soda</b>
<b>Pineapple</b>	<b>Lemon Squash Vanilla</b>

**A. Boake Roberts & Co. L<sup>td</sup>**  
**Stratford, London.**



# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

**MEADE-KING, ROBINSON & CO., LTD.**  
LIVERPOOL - - - MANCHESTER

## Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow  
and golden, for pharmaceutical  
purposes.

MANUFACTURED SOLELY BY

**The Dee Oil Company, Ltd.**

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller  
packages according to requirements.

Inquiries are solicited for this article  
of **BRITISH MANUFACTURE**, and  
buyers may rely that for quality and  
price it will meet any competition

Other Grades

**Petroleum Jellies, White Bases, &c.**

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool,"

## EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content	...	...	70/80%
Optical Rotation	...	...	0 to 1
Specific Gravity	...	...	919 to 928

Absolutely Free from Phellandrine.  
Quotations by Cable. Wholesale Trade Only.

**BURNSIDE & COMPANY**  
Eucalyptus Oil Distillers,  
**VICTORIA, AUSTRALIA.**

New Postal Address—Cables—"Burnside Company,"  
439 Flinders Lane, Melbourne. Melbourne.

## PURE ESSENTIAL OIL OF HOP.

Singly and fractionally distilled.

HIGHEST CONCENTRATION AND PURITY GUARANTEED.

Prices, samples and information  
from the distillers:—

**WHITE, TOMKINS & COURAGE, LTD.**

HEAD OFFICE:

**48 Mark Lane, LONDON, E.C. 3,**

And at  
**LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.**



THE FOLLOWING  
**NEW ARRIVALS**

**SPIKE LAVENDER OIL**  
**SPANISH ROSEMARY OIL**  
**CEDARWOOD OIL**  
**PEPPERMINT OIL**  
**THYME OIL TERPENES**  
**ARTIFICIAL SASSAFRAS**  
**TERPINEOL**

WE CAN OFFER TO ADVANTAGE.

**ALLEN'S THYMOL**

FINE WHITE CRYSTALS.

---

ESTABLISHED 1833.

**STAFFORD ALLEN & SONS LIMITED**

Manufacturing Chemists,

**LONDON AND LONG MELFORD.**

Regd. Offices—9 COWPER ST., FINSBURY, E.C. 2.

Telegrams—  
 "Persic, Finsquare, London."

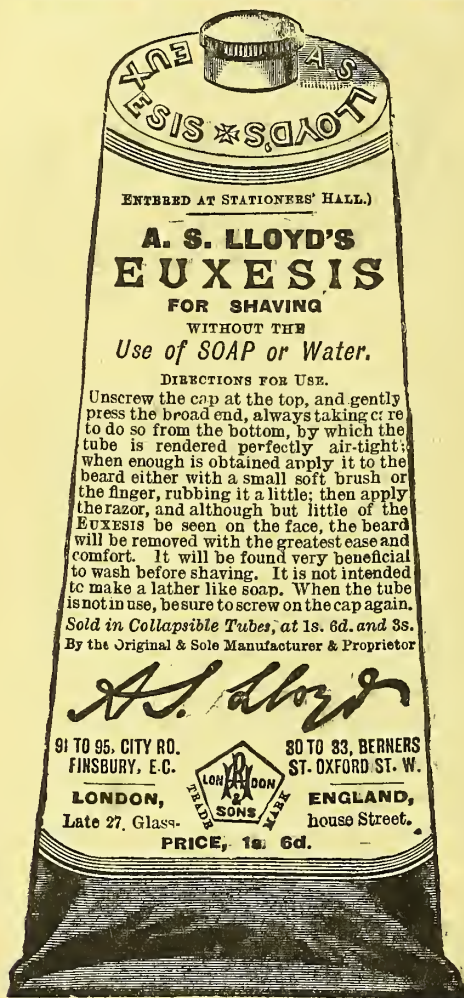
Telephone—  
 London Wall 6556 (3 lines).



# A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



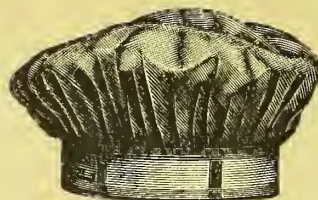
**Sold by all Perfumers and Chemists  
throughout the World.**

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

11/6 per dozen; 11/3 by the 6 dozen.  
Retail at 1/6 per tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.,**  
LONDON: 29-33 Berners Street, W.; and 88-95 City Road, E.C.



**AS MANUFACTURERS**

we offer the latest patterns in solid  
rubber or proof, plain and fancy

## BATHING CAPS ALSO SAFE FLOATS



And invite Inquiries. Samples on application.

**F. SCHUTZE & CO., LTD.**  
Caledonian Market - LONDON, N.

## LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants,  
Manufacturing Chemists

**HULL.**

INVITE the Trade to take up the following valuable  
P.A.T.A. Protected Lines, bearing a very large  
Protected Retail Profit, which sell freely and are  
well known and valued by the Public in many parts  
of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net
* LOSALL'S SALT (well advertised), tins	9d.		6/6
* " " " " " bottles in cartons	2/-		16/-

**\* Losall's Salt sells so well, surely it  
must pay Pharmacists to stock such  
a big profit-bearing protected line.**

### LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-

# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

## CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—  
A. S. Lloyd in Black Ink, and that of his Widow,  
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and Proprietors: AIMÉE LLOYD & CO.**  
**23 PANTON STREET (formerly named Spur Street),**  
**HAYMARKET, LONDON, S.W.**

*N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).*

### "Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1  $\frac{1}{2}$  dozen 7½d. selling for 11 3  
" 1/- " " 9 0

For 10/- cash with order, carriage paid. 20 3  
7½d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.  
Direct Orders value £5 subject to 10% discount and  
1 doz. 1/- size bonus for window display, showing  
38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists  
LOWER UNION ST., BRISTOL.

### 'Ongard' Guarded Safety Pins



RUST  
PROOF.

For Surgical & Nursery Purposes.

SOLE MANUFACTURERS  
**GEORGE GOODMAN LTD.,**  
BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD.,  
70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

Manicure your Finger Nails with

## "Redio" TRADE MARK

Finger Nail Cloths.

They give a brilliant,  
lasting polish without  
pumice, dust, or grease.  
Beautiful finger "nails"  
give the finishing touch  
to a cultured hand.

Of all Chemists,  
Hairdressers, etc.

Prices:  
6d. and 1/-



The REDIO CO.  
specialises in impreg-  
nated cloths.  
Try the celebrated Redio  
Metal Polishing Cloths.

REDIO CO., Ltd., 66 Fore St., London, E.C. 2.



# Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

**Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.**

1/2 Doz.	Ingram's Milkweed Cream	...	...	Retails 2/-	Price 8/-
1/2 Doz.	" Velveola Souveraine (Face Powder)	"	"	2/-	" 8/-
1/2 Doz.	" Zodenta Paste for the Teeth	"	"	1/-	" 4/-
1/2 Doz.	" Rouge, Light, Medium, Dark	"	"	2/-	" 4/-
1/2 Doz.	" Perfume, 1 oz. assorted in fancy packages	...	...	" 4/-	" 16/-
100 Guest Room Packages free.					£2

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).  
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

## White & Coloured Split Skins

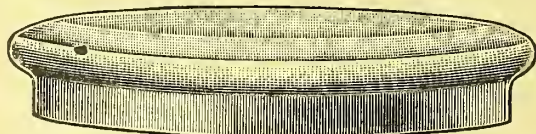
FRANK A. CONDUIT,  
SUTTON HOUSE,  
2 OLD STREET,  
LONDON, E.C. 1.

**TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.**  
**FOR QUOTATIONS apply to—**

**PRESTON'S LIVERPOOL DISTILLERY CO., LTD.**

The Largest Makers in the Kingdom.

**BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.**



## CELLULOID CAPS

for Pots and Bottles.

**F. W. DUROSE,**

45 Queen Street, SMETHWICK, BIRMINGHAM.

Telegrams: "Durose Smethwick."

# TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

## WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

**CITRAL**

**EUCALYPTOL**

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary



**CINNAMIC**

**ALDEHYDE**

**GERANIOL**



# HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition),  
Western Union.

Telegrams: "LANDSLOH LONDON,"  
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman St., New York.  
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.



# JULES LANG & SON

WE HAVE LARGE STOCKS OF  
**French & Japanese TOOTH BRUSHES**

Small stock of Military Hair Brushes.

*Samples will be sent on application.*

Wholesale trade only supplied.

NOT Retail.

Charlton Works, Charlton Place

Telegrams: "Assorted, Phone, London."

ISLINGTON, LONDON, N. 1.

Telephones: North 2770 (3 lines).

*Hindes* **HAIR TINT**

For GREY OR FADED HAIR.

Regd. Title - "SEEGEROL."

HINDES, Ltd., 1 Tabernacle St., City, London, E.C. 2

Patentees & Manufacturers of the World-famous  
Hindes' Wavers.



NOTHING COMES OUT  
if the bottle is  
sealed with a  
**SEMREH**  
SELF-FIXING  
BOTTLE CAP.  
All the goodness of even  
spirituous preparations is  
kept in. Why not test  
one yourself? Apply to  
**The VISCOSÉ**  
Development Co., Ltd.,  
BROMLEY, KENT.

IMMEDIATE DELIVERY

**GATES' BOTTLE CAPPING SKINS**



**SNOW-WHITE OPAQUE ROLLED SKINS.**

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

Sole Pioneer and Only English Manufacturer:

**LESLIE GATES HAILSHAM, SUSSEX.**

Another New Speciality.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.



THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

BE SURE AND ADD

**La-Rola Rose Bloom**

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business through being out of stock.**

It is the most natural tint on the market, and is selling well wherever introduced.

**Lait La-Rola & Glycerine & Cucumber**  
supplied as usual.

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

**M. BEETHAM & SON, Cheltenham.**

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.



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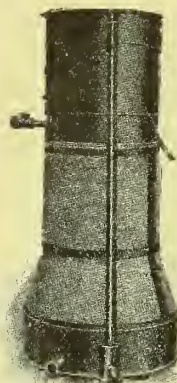
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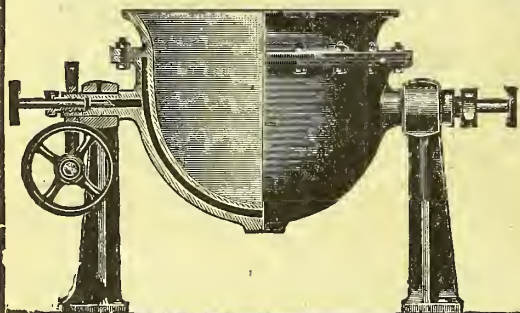
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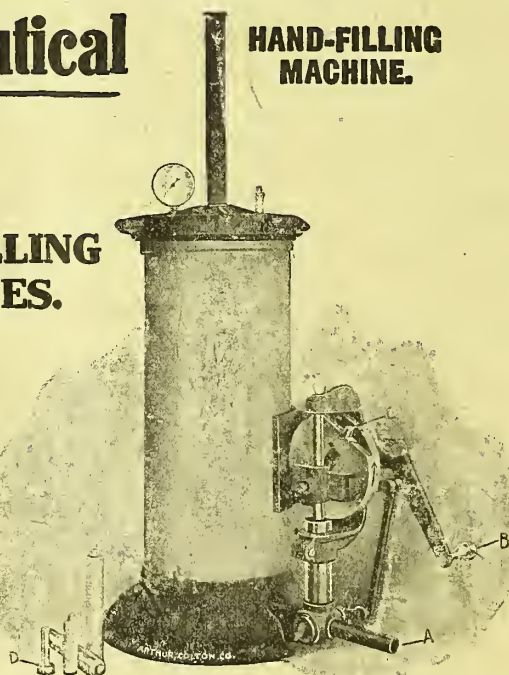
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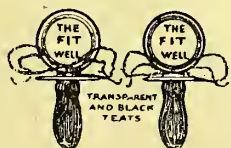
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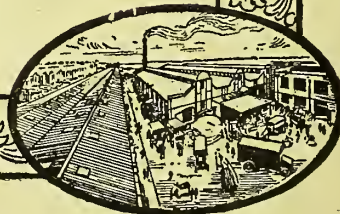
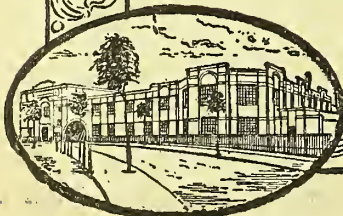
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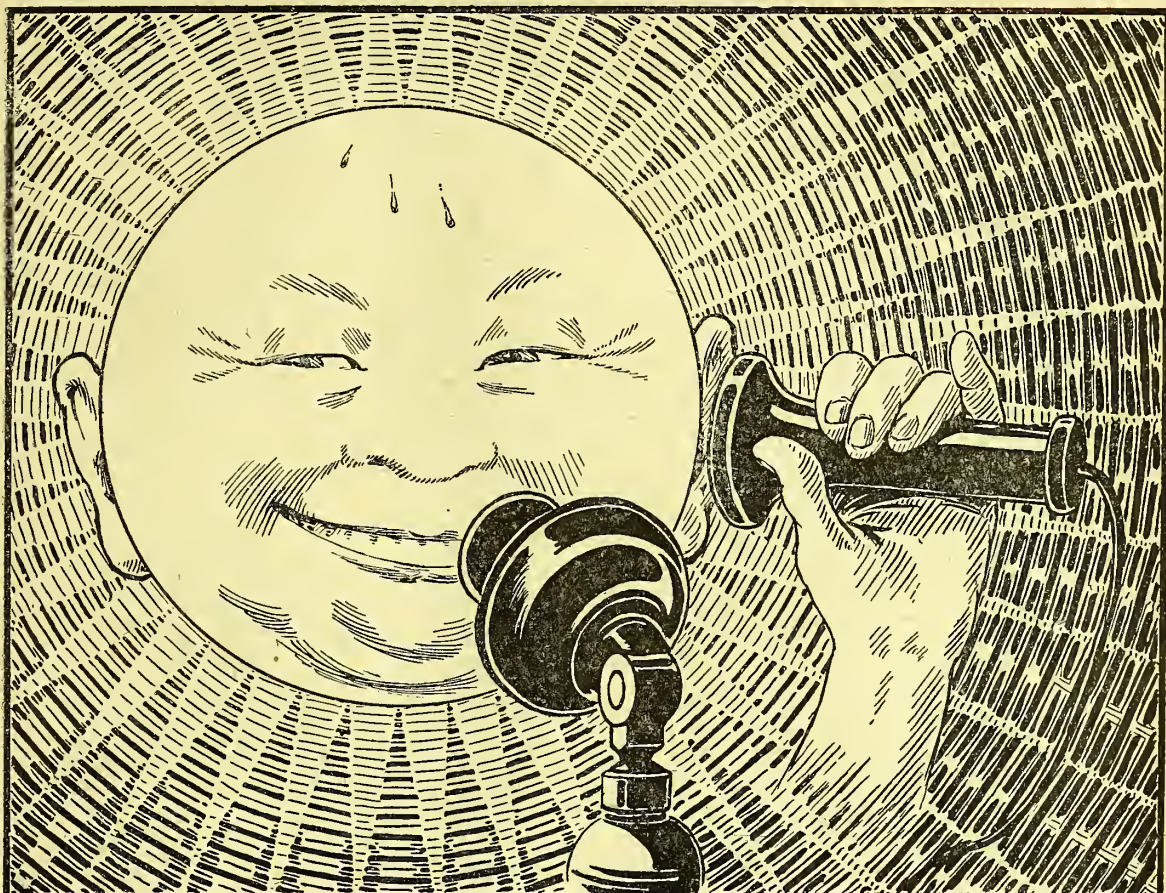
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## Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

#### Tuesday, March 25.

London (S.W.) Pharmacists' Association, Public Hall, Streatham, at 8.15 P.M. Address by Mr. W. S. Glyn-Jones.

#### Wednesday, March 26.

Liverpool Chemists' Association, Bear's Paw Restaurant, Lord Street, at 7 P.M. Dinner. Tickets (10s. 6d. each) from Mr. A. S. Furniss, 531 Prescot Road, Old Swan, Liverpool.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Room, Church Street, Sheffield, at 8.30 P.M. Mr. E. F. Rowsell on "Anti-Cutting" and "Face Value."

#### Thursday, March 27.

Essex (County) Association of Pharmacists, Holborn Restaurant, London, W.C., at 6 P.M. Dinner. Tickets (8s. 6d. each) from Mr. C. Goode, 6 Crisp Street, London, E. 14. [It is the desire of Mrs. Matthews and family that the dinner arrangements shall not be interfered with owing to the death of Mr. Matthews.]

Western Pharmacists' Association, 316 Regent Street, London, W., at 8.30 P.M. Mr. P. F. Rowsell on "Anti-Cutting" and "Face Value."

Chemists' Dental Society, 17 Bloomsbury Square, London, W.C., at 3 P.M. Special meeting to consider the Report of the Dentists Act Committee.

#### Friday, March 28.

Newcastle-upon-Tyne Pharmacists' Association, Brighton Assembly Rooms, at 8 P.M. Whist-drive and dance. Tickets (5s. 6d. each) from Mr. A. D. Hunter, 268 Westmorland Road, Newcastle-upon-Tyne.

## Experiences of the Great War.

*Contributions to this section are invited.*

### VI.—Four Years with the Volunteers.

THE commencement of the war found me hopelessly over military age, and it seemed impossible that I should ever be privileged to carry a rifle or wear the King's uniform. But the formation of a local Volunteer Training Corps, with the prospect, however remote, of a fight on our own shores, was not to be despised, and I was soon enrolled as a member, turning to the right by numbers as awkwardly as the rest of the squad. We were fortunate in having as instructors some of the smartest N.C.O.'s of the Royal Marines, who soon licked us into shape, and had us forming platoon and executing company formations. Scores of miles have I tramped on the cement floor of the huge drill-hall with four or five hundred of my companions, answering the commands of various officers, soon to be put to more serious practice, and incidentally exposing their "bloomers." In the spring of 1915 we got outdoors for extended order, and a Sunday route march became a regular institution—fifteen to twenty miles with rifle and haversack. The first long march punished me severely; after a time my feet got hardened, and, what is more important, my mind became inured to discomfort, so that I could sing as lustily as the rest of the column of route when my feet were blistered and bleeding. Facilities were given us of learning signalling and musketry; we did a lot of trench digging, and also had some splendid field days, attacking and dislodging assumed enemy forces, so that had "Jerry" actually paid us a visit he would have discovered that we had done some rehearsing to his detriment. Then our ranks began to be depleted, the younger men drifted into the Army, generally securing early promotion, due to the start they had already made.



PTE. T. POSTLETHWAITE.

In 1916 Volunteers were attested, medically examined, and became a part of the Army, our corps being attached to the county regiment. We were put into khaki, required to sign a declaration of service for the duration of the war, and a minimum of drills was imposed. This brought to a finish the Training Corps, and was a step up for the patriotic volunteer. Each man received 2l. for uniform when efficient, and we were supplied with arms and full equipment, and had free railway warrants when it was necessary to travel by train. Previously we had paid for our instructors, uniform, rifles, and material of every kind, as well as giving the time to drill. All this was surely not a waste. We were told that the authorities regarded us askance, and we could see the sinister smiles of lookers-on; yet our enthusiasm ran high, and I look back on the old V.T.C. parades, as unequalled. Under the new arrangement we had a greater variety of drills, brilliant lectures on such subjects as visual training, fire orders, raiding parties, etc., as well as full opportunity of attending classes in bombing and machine gunnery. I took a course of bayonet-fighting and did a lot of guard duty, the latter being the only means I had of keeping up my count of drills, the ordinary parades being held too early for me to attend. It was perhaps the first time I was on sentry-go that I felt the pride of being a real soldier, knowing that I was putting my training to good use. In six months I had put in twenty-four nights on guard. The guard was changed morning and evening, seven days a week, and, taking advantage of the weekly half-holiday, I left home at 6 o'clock and arrived back at 8.30 the following morning. We were posted around a concern on which a branch of the Services was vitally dependent. Everything went with regularity, the event of the night, of course, being the grand rounds. The officers always treated us very correctly, and occasionally, after being satisfied with their visit, would have a cheery word for the sentry, for in bad weather their job was no more envious than our own. I always anticipated my guard night with pleasure. As a boy I was country-reared, and the clear frosty air, the brilliance of the stars, which I studied again after so long an interval, the owls in the woods, and the loneliness of my post, all appealed



strongly to me. The gaiety of the guard-room served to remind me that man only is vile.

The winter of 1916-17 was very severe, and I had both ears badly frost-bitten; I suffered a good deal of pain in them through the better part of the following summer, and have still a small crescent missing from each. The 4 till 6 A.M. relief in summer, with its gradual swell of the song of birds and the chorus of the chanticleers in a neighbouring village certainly represented soldiering *de luxe*. The drawback was the loss of sleep, and the following day work in the pharmacy would go a bit heavy. We used to supplement our Army pay for rations by a few coppers from each man, and were thus able to have a good supper and breakfast, and coffee or soup in the middle of the night, for when a healthy man is working all night he is hungry all night. During the past year we have been put on various guards with various orders; the routine, however, is the same—two hours on and four off. The only time I charged with bayonet and drew blood was when I chased a big rat and finished him with the first point. On two or three occasions I have formed a part of a guard of honour, and have been privileged to "present arms" to three of our most illustrious fighters. These ceremonies, often lasting but a few minutes, necessitated an intense preparation, and the sergeant-major was a hundred times more exacting than a chemist weighing a grain of atropine.

Most of my experiences and adventures have been of a sort common to any infantryman, and not to pharmacists in particular. Had the ambulance section of the corps from the first drilled at times when I could have attended it would have been different. I have, however, been called out as special stretcher-bearer to assist in unloading wounded from train to hospital. The sergeant of the guard once put into my charge the medicine basket and the lives of two sentries who had fallen into a deep river at midnight and in a snowstorm. They both recovered, but I found that some previous urgent case had used up the supply of brandy. Later I redesigned and refitted the ambulance outfit and medicines for the guard, and for my trouble received a very gratifying letter from the Officer Commanding on behalf of the battalion. My professional knowledge availed me little; if it had been in my power to give a star turn at a smoking-concert I should have been in great demand; nevertheless, it was something to my credit that I was a marksman with the rifle. I was solicited quite respectfully by the R.S.M. to enter a challenge team, and on topping the score I received an ovation in addition to the silver spoon.

Last May we had our test mobilisation, quite a memorable affair, and in spite of the bustle everything worked with smoothness. I was detailed, with others, to load up ammunition, and was not sorry when the last case was reported. In a couple of hours we marched out, a fresh battalion with transport wagons and all impedimenta necessary for a campaign, and assembled at the place of inspection. Ever since that time I have figuratively slept with one arm through the pack-strap awaiting the occasion which, it seems now, will not arise. I attended three annual camps, putting in ninety-six hours at one of them, and running to and fro between business hours. We slept under canvas, and by day I filled such positions as orderly, military policeman, and pioneer, always finishing up very tired.

To sum up, my four years in the Volunteers have been of incalculable benefit to me. The exercise and fresh air have strengthened and rejuvenated my body and mind, and there has been a recurring break in the monotony of shop life. Apart from the satisfaction of doing my bit, I have had a deeper sympathy with those who have roughed it across the water than otherwise I could have had. In lighter vein I have experiences by the score, but they must be recounted another time or told to my grandchildren when they ask what I did in the war.

V. 771912 *Private T. Postlethwaite (Ph.C.)*.

## Wills.

MR. THOMAS HENRY PRATT, chemist and druggist, Newbury, Berks, who died on July 24, left estate valued at 4,386l. 14s. 5d. gross, with net personalty 920l. 4s. 7d.

LIEUT.-COLONEL EDWARD MATTHEY, C.B., V.D., 31a Weymouth Street, Portland Place, London, W., and of Johnson, Matthey & Co., Ltd., refiners of precious metals, who died on October 21, has left estate of the value of 346,748l. 3s. 3d.

STOTHERTS, LTD., wholesale chemists and druggists, Atherton, announce that they are reducing the working-hours of their employes from 55½ to 47 per week, without any reduction in wages. This will affect nearly 300 employes.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### War Regulations Altered.

Since the last list was published in THE CHEMIST AND DRUGGIST (March 15, p. 47) the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 70. *Bismuth and Products*.—The Bismuth Order, 1918, and the Bismuth (Amendment) Order, 1919, are suspended. There are now no restrictions on dealings in bismuth and its preparations.

*Businesses, Opening*.—Applications for licences to open new businesses under Regulation 8AA of the Defence of the Realm Act must now be made to Employment Exchanges, the administration of the Order having been transferred from the Ministry of National Service to the Ministry of Labour.

P. 71. *Cocoa Butter*.—The Cocoa Butter (Provisional Prices) Order, 1918, and the Cocoa Butter (Requisition) Order, 1918, have been withdrawn so far as concerns the sale of cocoa butter, the price of which is now uncontrolled.

P. 73. *Condensed Milk*.—A general licence has been granted to import condensed milk, which, however, must not be sold in this country until after May 31, after which date all control will cease except that the milk must not be sold retail over the maximum price at present in force.

*Oils and Fats*.—A general licence has been issued permitting all persons to sell, purchase, and deal in all or any of the seeds, oils, and fats specified in the Order of May 1, 1917, as they may think fit, irrespective of quantity, subject only to the condition that no sale, purchase, or dealing shall be effected at a price in excess of that fixed in that Order as the maximum price.

*Orange-peel*.—The Apricot Pulp and Bitter Oranges Order, 1917, which regulated dealings in bitter oranges, and, incidentally, orange-peel required in pharmacy, has been revoked.

*Paper Control*.—The Board of Trade has decided to remove the Paper Control at the end of April.

*Potash Compounds*.—The Potassium Compounds Order, 1917, has been suspended so far as it relates to kelp.

P. 75. *Sweetmeats*.—The Sugar Confectionery Order, 1917, which fixes the maximum prices for chocolates and other sweetmeats, will be revoked from June 1.

*Sweetmeat Boxes*.—The Cocoa and Sweetmeat Box and Advertisements Order, 1918, which imposed restrictions upon the size, substance, and manufacture of cardboard boxes used for the purposes indicated, and restricted the use of advertisements in connection therewith, has been revoked.

*Tea*.—All restrictions on the sale of tea will be removed from March 24.

*Turpentine and its Substitutes*.—The Turpentine, etc., Control Order, 1918, is suspended, except in so far as it relates to turpentine substitute as defined in the Order—viz., mineral turpentine, white spirit, white oil, or any product of petroleum, under whatever name sold or known (except motor spirit and benzene), capable of being used as a substitute for spirit of turpentine.

### Contracts.

The following tenders have been accepted by the bodies named:

Blean Rural District Council.—The "Sanitas" Co., Ltd., London, E., and Mr. A. Lander, Ph.C., Canterbury, disinfectants.

Braintree Guardians.—Mr. C. B. Saunders, chemist and druggist, drugs.

Hollingbourne Guardians.—Mr. F. J. Oliver, chemist and druggist, Maidstone, drugs.

Isle of Wight Guardians.—A. Millidge & Son, chemists, Newport, drugs, etc.

Weymouth Guardians.—Mr. M. T. Evans, chemist and druggist, surgical dressings.

Yeovil Town Council.—Kilgerm Co., Ltd., and Newton, Chambers & Co., Ltd., disinfectants.

### Birmingham.

The late Mr. G. W. Udale, whose death has just been recorded in the *C. & D.* (March 25, p. 59), was at one time well known in Birmingham, where he was an assistant with Mr. Charles Thompson, Ph.C., and prepared for the "Minor" at the Broad Street Corner Institution.

Although, as mentioned in this column last week, the prices of science text-books are high, that of Southall's



"Materia Medica" remains for the present at 7s. 6d. As the book will soon be out of print, the exception may in this case be said to prove the rule rather forcibly.

The Sale of Food and Drugs Acts case reported in another column was cosily staged in a carpeted room at the Victoria Courts. The magistrates' table reminded one pharmacist present of the materia-medica bench at the Qualifying examination. It was interesting to hear a magistrate declare that he liked senna tea, and still more interesting to watch Mr. Marshall Freeman, pharmacist and barrister-at-law, cutting samples of liquorice root and handing them round—on his brief.

A dispute has arisen at the surgical-dressings factory of Southall Bros. & Barclay, Ltd., at Saltley, where a large number of girls are employed. No question of hours or wages is involved, the trouble having developed over the transference of a manageress from one department to another to take the place of a manageress who recently resigned. The girls objected to the transference, and, as the management refused to give way (holding the view that the question was one affecting their right to appoint their own staff), about 300 girls came out on strike. The company asked the workers to give the new manageress a trial, but they would not listen to this, although the representative of the Workers' Union, to which most of the girls belong, stated that there was no grievance against this lady. A dozen men joined the strikers out of sympathy.

### Leeds.

Photographic goods are beginning to be shown once again, but supplies of films are still short.

The bottle shortage is a serious one not only for the retailer, but also for the wholesale houses.

"Fellows'" has again made its appearance on the shelves, but there is no great demand. The case is much the same with glycerin.

The Leeds Photographic Society has just held an exhibition, an attractive feature being some Paget "natural colour" positives.

The forthcoming opening of two new businesses in North Street will provide the residents of that district with a good choice of pharmacists.

The influenza epidemic, which has been very severe again in this city, shows signs of abating. The demands on the chemists have naturally been very heavy.

Apprentices and assistants are coming back to their old berths, while the ladies who filled their places are gradually finding situations as dispensers to doctors or institutions.

The death of the elder brother of the firm of Saville Bros., chemists, Chapeltown, breaks another link with the older generation of the trade in Leeds. Death took place peaceably during sleep.

Breakages and pilfering on the railways were never so frequent as at present. In addition, railway carters seem to take a delight in dropping cases off their lorries with no regard to the contents.

### Liverpool.

Influenza masks appear in the windows of a small number of pharmacies.

New chemical laboratories, estimated to cost 150,000*l.*, are being planned for Liverpool University.

The inrush into Liverpool for the re-introduced Aintree week will, it is believed, be unprecedented. Retail pharmacists are preparing for brisk business.

Both wholesalers and retailers are handicapped by the suspension of supply of many articles in constant demand. The public, however, are learning to accept substitutes.

Sergeant Tom Ashworth, D.C.M., M.M., chemist and druggist, who volunteered in 1914 while an assistant with Clay & Abraham, Ltd., has been released from the Army, and is visiting friends in Liverpool.

Mr. T. Fell Abraham, Ph.C., speaking on March 15 as President of the Birkenhead branch of the R.S.P.C.A., pleaded that the rationing of draught horses should be relaxed at the earliest practicable date.

At the Police Court, on March 18, a Chinese laundryman was sentenced to two months' hard labour for unlawful possession, was fined 12*l.* for having opium in his possession, and was recommended for deportation.

Cecil Archibald de Lenoir, the man in whose possession a considerable supply of morphine was lately found by the police (*C. & D.*, March 15, p. 48), was sentenced to twelve weeks' hard labour by the Liverpool stipendiary magistrate on March 14.

### Sheffield.

Several pharmacists and unqualified assistants who are awaiting the blessings of demobilisation are still-marking time in rest camps.

Mr. Arthur Knowles, Woodseats, has been appointed by the local Council to represent chemists on the Infants' Welfare Committee set up by the City Council.

A two years' course at Sheffield University during apprenticeship is suggested as a workable scheme for pharmacy students. The fee is estimated at 13*l.* 13*s.* The scheme remains in abeyance till the new syllabus for the Qualifying examination is settled.

### Manchester.

POISONING.—Miss E. M. Watmuff, Shipley, Yorks, died through drinking a solution of ammonia—in mistake for brandy, it is supposed.

POISON-LICENCE APPLICATION.—Mr. R. Leach, corn merchant, Bank Street, Carlisle, has applied to the local authority for an agricultural-poison licence.

THEFT FROM A PHARMACY WINDOW.—In the early hours of March 16, a plate-glass window at the shop of Bewells, Ltd., 95 Walworth Road, London, S.E., was broken and some watches and cigarette-cases were abstracted.

INCREASED POSTAL FACILITIES.—Arrangements are being made to improve the postal services which have been curtailed as a result of war conditions. It is intended to abolish midday closing at all the larger offices and to increase in the larger towns the number of postal deliveries.

FIRES.—An outbreak of fire occurred on March 16 on the premises of C. Gadd & Son, chemists, 1 Harleyford Road, London, S.E., slight damage being caused in the basement. —A similar outbreak occurred recently at the pharmacy of Mr. Frank P. Parker, chemist and druggist, 137 Cornwall Road, London, S.W., where a room behind the shop was damaged.

TUBERCULOSIS NOTIFICATION.—Last year the Local Government Board made Regulations requiring every Medical Officer of Health to keep a register of every male person between certain ages who was notified as suffering from tuberculosis and to transmit the list to the Ministry of National Service. An Order has now been made rescinding the Regulations, as their purpose has been served.

PRIVATE ARRANGEMENT.—At a meeting of the creditors of Mr. E. F. Suckling, drug dealer, Linton, Cambs, on March 12, a statement was submitted showing liabilities 234*l.* 15*s.* 10*d.*, and assets estimated to produce 269*l.*—a surplus of 34*l.* 4*s.* 2*d.* After some discussion it was decided that a deed of assignment should be executed to Mr. Parkin S. Booth, Liverpool. Among the creditors are Barclay & Sons, Ltd., 11*l.*; Arthur H. Cox & Co., Ltd., 10*l.*; Corbyn, Stacey & Co., Ltd., 12*l.*; Pilchers, Ltd., 13*l.*; and Sangers, 49*l.*

A MISSING SPECIMEN.—An advertisement in the "Personal" column of "The Times" of March 11 requesting information concerning a human jawbone dug up in Suffolk in 1855, and "supposed to have been taken to America," embodies a curious story of *trouville* and loss. In 1855, an Ipswich chemist named Taylor acquired from a coprolite digger a lower human jaw, which had been shot out of a tumbrel or cart containing coprolite at the works of Packard & Co., fertiliser manufacturers, Bramford. Mr. Taylor eventually gave the jaw-bone to a Sir Thomas Beaver, who, in his turn, presented it to Dr. R. H. Collyer. The "Anthropological Review" for 1867 contains a description of the circumstances of the find, together with a drawing of the jaw-bone itself. The specimen seems then to have disappeared.

IN THE COURTS.—At the West London Police Court, on March 10, George Frederick Skill, commercial traveller, charged on remand with breaking into a warehouse and stealing money belonging to Mr. Charles Hillman Gane, manufacturing chemist (*C. & D.*, March 8, p. 49), was committed for trial, bail being allowed.—At the Guildhall Police Court, London, on March 18, Leonard Easey (16) was charged with breaking and entering the premises of Scott & Bowne, Ltd., Stonecutter Street, E.C., and stealing Treasury notes, value 6*l.* 10*s.*, and other property. Mr. George Hart Short, a director of the company, gave evidence as to the method by which an entrance had been effected, and said that he valued the stolen goods at 12*l.* A remand was ordered.—At the Thames Police Court, London, on March 18, two Chinamen were each fined 5*l.* (or in default, twenty-one days' imprisonment) for being in possession of opium-smoking utensils. It was stated that on the premises on which the defendants were arrested a "very small quantity" of opium was found. The house had twice previously been raided.



## Irish News.

### Brevities.

Two tenders for medicines were sent to the Sligo and Litrin Asylum Committee by Messrs. Toher and Young respectively, but, as neither was in accordance with the 1920 list, they were referred to the doctor for a report.

The Local Government Board has sent circulars to many Boards of Guardians intimating that, in declaring the forthcoming contracts for medicines, the lowest tenders must be accepted unless there are sufficient grounds for not doing so.

### The Haslett Gold Medal.

The Committee of the Chemists' and Druggists' Society has awarded the Haslett Gold Medal for 1918 to Miss Margaret Leavy, Mountmellick. Miss Leavy, who is also a member of the Dental Society, is the youngest sister of Mr. John Leavy, Mountmellick, and of the late Mr. James Leavy, manufacturing druggist, Castleblaney. The medal was presented by the late Sir James Haslett, M.P., for the student who takes the highest place at the Registered Druggist examinations during the year.

### Belfast.

The business and dental practice carried on at the Enfield Drug Hall, Crumlin Road, Belfast, by the late Mr. William Corbet, R.D., whose death has recently been announced (*C. & D.*, March 15, p. 59), is to be offered for sale by private treaty.

On the invitation of Mr. E. J. Roberts, ex-President of the Chemists' and Druggists' Society of Ireland, the members and friends enjoyed a whist-drive on March 12 in the Society's rooms, 11 Waring Street, Belfast. This function had been postponed owing to the recent strike in the city. Refreshments were provided, and at the close a vote of thanks was accorded to Mr. Roberts for his hospitality.

The Irish Boards of Guardians are now inviting tenders for the supply of medicines and medical and surgical appliances to the various infirmaries and dispensaries for twelve months beginning April 1. This is the first occasion for some years on which annual tenders have been asked for, as during the greater part of the war the Local Government Board sanctioned the inviting of tenders for six months on account of the conditions prevailing in the drug-trade. The contracts will be allotted during the ensuing week.

### Cork.

No permit has yet been granted for the rebuilding of the portion of the Cork Chemical and Drug Co.'s premises destroyed by fire in 1917.

St. Patrick's Day, March 17, Bank holiday in Ireland, was observed by most of the chemists, who granted a general holiday to the assistants.

Irish week commenced on St. Patrick's Day, and an appeal was made to all traders in Ireland to display Irish-manufactured goods. Cork chemists readily responded, and very attractive windows were the result.

### Dublin.

In the Southern Police Court, Dublin, on March 15, Christina Murphy, a domestic servant, was charged before Mr. Swift, K.C., metropolitan magistrate, with having on February 14 obtained a bottle of chlorodyne by false pretences from Louis Elliman, an assistant in the Medical Hall, 33a South Richmond Street, Dublin, the proprietor of which is William Smullion, Ph.C.; with having obtained by false pretences on March 1 another bottle of chlorodyne from Louis Parkes, an assistant in the same establishment; and with having attempted to obtain by false pretences a third bottle on March 14. The girl stated that she wanted a bottle of chlorodyne for Mrs. Weiner, 23 Ashfield Road, who had an account with Mr. Smullion. Mr. Smullion stated that on the 14th inst. at noon the girl came to his shop and asked for a bottle of chlorodyne for Mrs. Weiner. He asked her if she required anything else, and she said she wanted some headache powders, for which she paid. He did not give her the chlorodyne, but had her arrested. Mrs. Weiner stated the accused had been in her employment up to the end of January. Witness found that the girl had been taking chlorodyne, and she sometimes found her under the influence of the drug. Mr. Burne, solicitor, said accused was unfortunately addicted to drug-taking; and when a person reached a certain stage in the habit the sense of moral responsibility became blunted. Mr. Whiteside, the girl's present employer, gave her a good character and expressed his willingness to send her to her friends in the country. Mr. Swift remanded her in custody until March 21.

## Pharmaceutical Society of Ireland.

### Council-meeting.

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on March 11, Mr. James Michie (President) in the chair. The following members of the Council were also present: Dr. J. A. Walsh, Messrs. G. D. Beggs, J.P. (Hon. Treasurer), W. F. Wells, A. Owen Wells, Richard Blair, and Victor E. Hanna.

THE PRESIDENT stated that the Vice-President (Mr. J. E. Connor, J.P.) had written regretting his inability to attend. THE REGISTRAR (Mr. A. T. Ferrall) stated that he had received apologies from Mr. Wm. Doig and Mr. Lancashire, J.P., and telephonic communications from Mr. D. M. Watson and Mr. McLean Lee, both of whom had been laid up with influenza, but are now better, though unable to attend the meeting.

THE REGISTRAR submitted a communication from the Clerk of the Privy Council, transmitting copies of an Order in Council approving of the altering of the hour for commencing the Preliminary examination to 10 A.M.

THE REGISTRAR also submitted a letter from Mr. Wm. Doig, Belfast, thanking the Council for co-opting him a member of the Council; and a letter from Dr. E. Harnett Murphy, returning thanks for his appointment as a Preliminary examiner.

Mr. J. Harnett, Ph.C., wrote notifying change of address from Grealy's Medical Hall, Galway, to the Pharmacy, 1 Main Street, Killarney.

### PRELIMINARY REGISTRATION.

Mr. Louis Grass, 24 Warren Street, South Circular Road, Dublin; Mr. William A. E. Hickie, The Hollies, Magazine Road, Cork; and Mr. John Ranaghan, 2a Pakenham Street, Dublin Road, Belfast, submitted certificates from other bodies and were admitted to preliminary registration.

### DEATH CERTIFICATE.

THE REGISTRAR submitted a certificate of the death of Mr. John Murphy, Ph.C., Cork.

### THANKS FOR DONATIONS.

THE Pharmaceutical Society of Great Britain sent a copy of the Registers, 1919, and the Birmingham University a copy of the Calendar for the session 1918-19, for which they were thanked by resolution.

Reports from the Law Committee and the House Committee were received and adopted.

### ELECTIONS AND NOMINATIONS.

The following were elected as members:

\*Mr. Edward Byrne, Ph.C., Coalisland, co. Tyrone; Mr. Thomas J. Carroll, Ph.C., The Medical Hall, Kilmallock; Mr. John E. Devitt, Ph.C., 1 Marsden Gardens, Cavehill Road, Belfast; Mr. Michael Dore, Ph.C., Bridge Street, Newcastle West; Mr. Andrew E. French, Ph.C., North Street, New Ross; Mr. Chancellor Gibson, Ph.C., 35b Ravenhill Road, Belfast; Mr. Thomas Gleeson, Ph.C., The Pharmacy, Cashel; Mr. Henry Grainger, Ph.C., Kenny Street, Callan, co. Kilkenny; Mr. Daniel J. Stapleton, Ph.C., 23 High Street, Kilkenny; Mr. Joseph Suche, Ph.C., 107 Upper George's Street, Kingstown; Mr. Francis Sullivan, Ph.C., The Pharmacy, Garriek-on-Shannon; Mr. John Thompson, Ph.C., 31 Alma Terrace, Carlisle Circus, Belfast; Mr. Christopher H. Williams, Ph.C., Hillside, Rathdrum, co. Wicklow; Mr. James K. Yorke, Ph.C., The Medical Hall, Moate, co. Westmeath; Mr. Robert Farrell, Ph.C., 22 Main Street, Blackrock, co. Dublin; Mr. Richard Chism, Ph.C., Dundee's Medical Hall, Holywood, co. Down; and Mr. Joseph Shillington, Ph.C., Cornmullagh, Dungannon.

Mr. Patrick J. Stafford, R.D., Drug Hall, Bishop Street, Tuam, co. Mayo, was elected an Associate Druggist.

The following were nominated as members:

Mr. James S. Collins, Ph.C., The Medical Hall, Kiltimagh, co. Mayo; Private John F. Courtney, Ph.C., R.A.M.C., on active service in France; and Mr. Patrick J. Mangan, Ph.C., The Pharmacy, Cahirciveen, co. Kerry.

Mr. John Dunlop, R.D., 30 Delaware Street, Belfast, was nominated as an Associate Druggist.

CANADIAN TRADE.—A Canadian Trade Mission has been established at 1 Regent Street, London, S. W. 1, by the authority of the Canadian Government. The Mission is under the chairmanship of Mr. Lloyd Harris.

RECOVERED GLYCERIN.—The amount of glycerin produced from the saving of fat and bones in the Army, placed at the disposal of the Ministry of Munitions, was sufficient for the manufacture of 25,000,000 18pr. shells during the years 1916 to 1918.



## Scottish News.

### Brevities.

A chemist's business is to be opened shortly in the village of Kinglassie, Fife.

Mr. W. Robertson, Ph.C., Cupar, has been elected an official of the Fifeshire Beekeeping Association.

Mr. W. T. Loudon, pharmacist, Dunfermline, has been elected a Vice-President of the Dunfermline Bowling Club.

Mr. R. F. Hughes, chemist and druggist, Methil, has been elected Secretary of the Methil Shopkeepers' Association.

Eight out of twelve cases of drunkenness dealt with at the Southern Police Court on March 17 were attributed to drinking methylated spirit.

Mr. Sibbald, of Pinkerton, Gibson & Co., Edinburgh, has acquired the business of Mr. J. C. McCorquodale, chemist and druggist, Markinch.

It is proposed to establish a spa on the site of the rediscovered spring at Benyorachie, Pitlochry. Many decades ago this spring (which has now broken new ground) had a great reputation.

### Aberdeen.

More than 1,000 cases of illness, "evidently due to enteric of a severe type," are reported by the Aberdeen Medical Officer of Health.

When a firm of margarine manufacturers was summoned at Aberdeen, on March 13, for selling (with warranty) margarine containing an excess of water, the Sheriff held that as the Government had taken over the control and distribution of margarine, depriving the merchant of any choice of a manufacturer, it must be assumed that the Government must also be held responsible for the purity of the article they controlled; the respondents were, he added, justified in the circumstances in giving the warranty in question, and were accordingly entitled to be freed from the prosecution.

### Dundee.

It is understood that three Dundee chemists' businesses are for sale.

Business shows a decided falling-off from the briskness of previous months.

Mr. G. Forbes Johnston, Broughty Ferry, announces in the local Press an anniversary sale of hair-brushes, sponges, etc.

Miss Isabel Gray, daughter of Mr. John Gray, chemist and druggist (Davidson & Gray), gave a pianoforte recital in Dundee on March 12. The audience was a large and enthusiastic one.

"Wormwood salts" has been recommended of late in a family paper for use in cleaning carpets. It is perhaps not generally known in Scotland that potassium carbonate is supplied under this name.

### Edinburgh.

"Hot-water bottles, 1s. 3d.," is the first line of the current advertisement of a Leith firm.

The Edinburgh Anti-Opium Committee resolved, at a meeting held on March 13, to extend its work.

Mr. D. B. Dott, Ph.C., presided at the recent annual general meeting of the Society of Chemical Industry (Edinburgh and East of Scotland Section).

The impending passing of the Calton Prison recalls the fact that it has lodged at least three famous poisoners—the Stewarts, husband and wife, and Eugène Chantrelle.

"I've never heard of it," remarked a chemist to a chance customer the other day. "That's nonsense," replied the inquirer. "The 'Christian' —" says it can be procured of all chemists!"

Speaking at Edinburgh recently, Miss Leith (Shop Assistants' Union) cited the case of a woman, forty years of age, who acted as superintendent of a number of girls in a laboratory in which powders were mixed for a well-known drug-store, and was drawing, until lately, a weekly wage of 17s.

Raimes, Clark & Co., Ltd., held an employés' dance in Fairley's Rooms, Leith Street, on March 10. Over 100 couples were present, and an enjoyable evening was spent. Dr. Coull and Messrs. J. P. Gibb and D. H. Sclater (of the directorate) were present. Mr. George Stuart made an efficient M.C.

Many chemists would welcome an authoritative opinion regarding the harm or benefit which results from giving a baby a variety of infants' foods. Most mothers believe implicitly that once A's food is used B's food as an alternative is criminal folly; and in that faith they will send out expeditions, in emergencies, even to other towns or villages.

## French News.

(From the "C. & D." Paris Correspondent.)

**SACCHARIN IN TABLETS.**—Wholesale druggists may now supply tablets containing a small dose of saccharin. The Food Minister at first objected, but it was finally arranged that if a medicament were introduced (lithine, for example), such tablets would not be considered as "alimentary."

M. EUGÈNE ROUX, Director of the Anti-Adulteration Services attached to the Ministry of Agriculture, and Professor Béhal, Vice-President of the Committee of Management of the Office of Chemicals and Pharmaceuticals, have been nominated Commanders of the Legion of Honour. Assistant Professor Astruc, Montpellier School of Pharmacy, has been nominated titular Professor of Galenical and Industrial Pharmacy at the same establishment.

**IMPORT LICENCES IN DEMAND.**—Writing to the Paris Wholesale Druggists' Association, the Minister of Commerce cites the quantities of medicinal plants for which importation licences were demanded between September 1917 and April 1918. We give the figures in metric tons (1,000 kilos.):

Digitalis, 14; belladonna, 31; arnica flowers, 27; stramonium, 37; marshmallow roots, 67; lime-tree flowers, 69; coltsfoot flowers, 9; valerian, 28; fern roots, 200; gentian roots, 21; and walnut-tree leaves, 26.

M. DANIEL BERTHELOT, who was elected a member of the Academy of Sciences last week, is the second son of the celebrated chemist. He has succeeded his illustrious father as Director of the Vegetable Chemistry Station at Meudon and is (like the late Marcellin Berthelot) Professor at the Paris School of Pharmacy. His studies include photochemical reactions and the action of ultra-violet rays. By means of the latter he has reproduced the principal types of fermentation. He has also obtained the photochemical synthesis of certain compounds, and optimists predict the transformation of the carbonic acid of the air into sugar by the action of the violet rays of the sun.

**PARIS SCHOOL OF PHARMACY.**—At the Paris School of Pharmacy notices announce special courses of practical laboratory work for students who were compelled to miss the "first semester" through military service. In a general way matters are being organised to facilitate and speed-up the necessary preparation for examinations, so as to give the demobilised man the best possible chance of making up for the years spent in the trenches. Four of the Professors of the School (MM. Guerbet, Grimbart, Perrot, and Villiers) have lost sons in the war, and during the year 1918 four members of the Society of Pharmacy (MM. Gaillard, Martin, Thibault, and Vicario) were similarly bereaved.

**DEEDS OF GALLANTRY.**—The "citations" of pharmacists for deeds of gallantry during the recent hostilities continue to appear: M. Paul Charpentier, who kept open shop at Rheims before the war, volunteered to hold an advanced and bombarded post near Malmaison in October 1917, and on May 29 and 30, 1918, "showed the same qualities of intelligent bravery," under heavy shell fire, replacing a wounded adjutant. M. Barruë, assistant pharmacist-major, volunteered for Serbia in 1915, and went through all the horrors of the winter retreat. Sent home invalided with low fever ("paludisme") in 1916, he left for the Western Front as soon as he was fit, and was seriously wounded in Argonne. He has since and up to the last months of the war been "continuously in the front line and at outposts to see that all measures were taken against gas." He has won the Cross of the Legion of Honour, as well as the War Cross. M. Fiévet, one of the oldest and best known of our Paris pharmacists, has had all his four sons cited for gallantry. One is an assistant pharmacist-major in the African Light Infantry, and all serve in regiments that have received the special honour of the "Fourragère" for collective bravery. M. Joseph Thibaudier, pharmacy student, youngest son of a pharmacist established at Rive-de-Gier, is cited for courageous conduct on July 19, 1918, at Nouilly-St.-Front during the "big push" of the Germans towards Paris. An "aspirant" (a probationary grade below that of second-lieutenant) in the famous "Blue Devils," he had safely passed a machine-gun barrage, when, noticing one of his men wounded, he knelt to apply a dressing, and was instantly shot through the head.

**SUGAR IN THE AIR?**—"The importance of living in a sugary atmosphere," says a Scottish paper, "is strikingly emphasised by the fact that the employés in the Greenock refineries and jam-factory have enjoyed complete immunity from the malady." Influenza is the malady referred to. "Sugary atmosphere" is so pretty a phrase that it seems cruel to raise any doubts about the matter. Perhaps this kind of atmosphere, like liquid air, might be made portable in some variety of vacuum flask.



## Poisons and their Antidotes.

A Paper read by Mr. Jas. Grier, M.Sc., Ph.C., at the Meeting on March 12 of the Manchester Pharmaceutical Association.

ONE of the subjects proposed by Jacob Bell in 1842 for the Major or Qualifying examination for the title "Pharmaceutical Chemist" was "Antidotes for Common Poisons," or the rudiments of toxicology. This subject was abandoned in the 1852 Act owing to the strong objections of the Master and Wardens of the Society of Apothecaries because it referred to a branch of medical practice. Since then toxicology as a practical subject has been dropped from the medical curriculum, investigations of this kind being now undertaken by public analysts or by specially trained medical toxicologists. But it is turning the tables with a vengeance on the action of the Society of Apothecaries in 1852 in excluding toxicology from the Major, to find eminent medical men like Professors Leech and Wild and an eminent scientist like Professor Meldola suggesting not only toxicology, but also physiology and pharmacology, as suitable subjects for a pharmaceutical curriculum.

In 1914 "M. D." wrote to one of our trade journals that it was a disgrace to an educated body such as pharmacists not to know how to render "first aid," and that it would be particularly useful to Army dispensers. Books on "first aid" always include a chapter on treatment of poisoning, and it is interesting to note that the book written for Army compounders entitled "Compounding and Dispensing Made Easy, an aid for the promotion examinations in the subjects for Non-coms. and Men of the R.A.M.C.," contains a section on "Poisons: their Symptoms and Treatment." Now that the Qualifying examination for pharmacists is about to be divided, the point arises if Jacob Bell's suggested subject "Antidotes for Common Poisons" might not be included under Part II. There is no lack of literature on the subject. Under the heading "Poisons and Antidotes," a scheme of treatment in cases of poisoning based on notes by Mr. Edmund White, B.Sc., F.I.C., in the "Pharmacopoeia of St. Thomas's Hospital," is given in "The Pharmaceutical Pocket Book." The last edition, the tenth (1916) of the Manchester Royal Infirmary Formulary, contains a useful section on "Treatment of Poisoning Cases," as also does "The Scientist's Pocket Book," issued by Jas. Woolley, Sons & Co., Ltd., but the little book most widely known and used is Dr. Murrell's "What to do in Cases of Poisoning." Larger books are "Poisons; their Effects and Detection," by A. Wynter Blyth; "Forensic Medicine and Toxicology," by Professor J. Dixon Mann, M.D.; and "A Text-book of Forensic Medicine and Toxicology," by Dr. Luff, in two volumes. Volume I, chapters viii. to xxiv. inclusive, deals with toxicology, and is illustrated with twelve very beautiful full-page engravings of poisonous indigenous plants. Toxicology is described as that branch of science or of medical science which treats of poisons, but the accurate definition of a poison is not an easy matter. Luff's definition is fairly clear and comprehensive: *A poison is a substance, which, either by its direct action upon the skin or mucous membranes, or after absorption into the blood, is capable of injuriously affecting health or of destroying life.* "It makes no difference from a legal point of view whether the action of that substance on the body is of a chemical or mechanical nature (crushed glass, metal filings, etc.), or whether it produces its fatal result by absorption into the blood or not." "Whosoever shall unlawfully and maliciously administer or cause to be administered to, or taken by, any other person, any poison or other destructive or noxious thing, so as thereby to endanger the life of such person, or so as thereby to inflict upon such person any grievous bodily harm, shall be guilty of felony; or, if with intent to injure, aggrieve, or annoy such person, shall be guilty of a misdemeanour." There is also a special provision which makes the administering of any chloroform, laudanum, or other stupefying or overpowering drug, matter, or thing, or the assisting of any other person to do this with criminal intent, felony. Murder, attempt to murder, or the giving of drugs to procure criminal abortion or the use of narcotics in attempted rape are all covered. With regard to the definition of a noxious thing the law throws the responsibility on a medical witness of expressing an opinion whether the substance given was a noxious thing, or whether it was given in excess, and so was likely to produce annoyance or injury to health. Lord Chief Justice Cockburn ruled that, unless the thing was noxious in the quantity administered, it cannot be said that there has been a noxious thing administered; and he further said that there must be a distinction between a thing only noxious when given in excess,

and a thing which is a recognised poison, and is known to be a thing noxious and pernicious in its effect. This seems a necessary and proper ruling.

In determining a poisonous dose, or the dose at which the substance becomes poisonous or noxious, various conditions, such as age, idiosyncrasy, habit, and state of health, have to be carefully considered. The condition in which the poison is administered, whether solid, liquid or in solution, or massed into pills with colloidal matters which delay its action and even its chemical combination—compare arsenious acid and cacodylic acid—very considerably affect the action of the poison. The mode of introduction into the system, whether by mouth or by hypodermic injection, or from mucous membranes, unbroken skin, or from ulcerated surfaces, and also the amount of food (colloidal matter) present at the time in the stomach, when given by the mouth, obviously affect both the rate of absorption and the action of the poison. The poison may also, as in the case of ether or chloroform, be introduced in the form of vapour into the lungs, and so gain access to the system. Arsenuretted hydrogen ( $\text{AsH}_3$ ) acts more rapidly than arsenic in liquid or solid form. Some poisons, such as certain arrow-poisons and snake venom, can be taken into the mouth, and even swallowed, with impunity in doses which would be fatal if injected under the skin. Even then it may be sucked out of the wound, and if swallowed would be eliminated by the kidneys as quickly as the mucous membranes of the mouth and stomach absorbed it. Hence the rapidity of absorption and the rapidity of elimination have also to be considered. Some poisons are cumulative. Lead combines with the colloidal matter of the body, and may remain in the system for an indefinite time, a small proportion undergoing progressive elimination independently of any treatment. Glass measures used for lead solutions are never chemically clean until rinsed out with dilute nitric acid. A linen cloth which had been used to strain a glycerin solution of lead was washed and dried in the ordinary way, and when some time afterwards it was used to strain syrup of ferrous iodide the whole cloth went a beautiful canary-yellow colour, indicating the "adsorption" of the lead by the organic fibres of the cloth. Similarly, digitoxin combines with the heart muscle of the ventricle, so that it cannot be continuously administered, and the heart must be given time to eliminate the poison.

In the case of hypnotic drugs the introduction of alkyl radicles higher than the ethyl radicle increases the toxic action, so that in the case of propional, *e.g.*, there is a very narrow margin between the therapeutic dose (2-8 grs.) and the toxic dose.

### CLASSIFICATION OF POISONS.

Various schemes of classification have been suggested, and are given in the books mentioned above. Luff says the classification of poisons is not a matter of much importance or of much utility. Dixon Mann says that a comprehensive classification is scarcely feasible without involving great complexity, and, when accomplished, is of little use. Wynter Blyth says that, with a more intimate knowledge of the way in which each poison acts upon the various forms of animal- and vegetable-life, it may be possible at some future time to give a truly scientific and philosophical classification of poisons—one based neither upon symptoms, upon local effects, nor upon chemical structure, but upon a collation and comparison of all the properties of a poison, whether chemical, physical, or physiological. No perfect systematic arrangement is at present attainable; we are compelled to omit all classification, or else to arrange poisons with a view to practical utility merely. The following classification is one of practical utility, and is an expansion of the scheme outlined in the B.R.C.S. First-Aid Manual. It is obviously limited and sketchy.

CLASS I.—Poisons which do not stain. Give emetics and treat shock or collapse with warmth; administer the chemical (or physiological) antidote; treat respiratory failure with artificial respiration, and when the poison has been eliminated as far as possible give demulcents.

1. *Deliriantes*: Aconite, atropine, belladonna, henbane, strychnine and other alkaloids. Chemical antidote, tannin, strong tea or hot coffee.

2. *Irritants*: Mercuric chloride or corrosive sublimate and other metallic poisons, such as copper, lead, zinc. Chemical antidote, raw white of egg to form an insoluble albuminate, hydrated ferric oxide or dialysed iron for arsenic; tannin for antimony.

3. *Narcotics*: Alcohol, opium, morphine, laudanum, chloroform, and ether. Rouse the patient, give strong hot coffee, artificial respiration. Chemical antidote to morphine is potassium permanganate.

4. *Volatile Oils*: Oil of turpentine, emetics. Epsom salts, milk lavage, oils of savin, rue, pennyroyal, eucalyptus; emetics, Epsom salts or castor oil, morphine.



5. *Fungi* (mushrooms, ergot) and ptomaine poisoning. Give an emetic, and, after vomiting, castor oil. Warmth, stimulants.

6. *Phosphorus* as rat poison and matches. Copper sulphate emetic and then grain doses every fifteen minutes, apparently to form an insoluble phosphide of copper. "Sanitas" freely, and half-drachm doses of "old unrectified French oil of turpentine" every half-hour (Murrell) or hydrogen peroxide solution. Epsom salts, but avoid oils and fats.

7. *Cantharides* or "Spanish Fly." Stomach tube or emetics, but caution if mouth and œsophagus blistered; demulcents, morphine, but do not give oil.

8. *Prussic Acid*. Fresh air; cold water on head and spine; artificial respiration and treat shock with stimulants and ammonia vapour.

CLASS II.—Poisons which stain or burn the mouth (corrosives).

1. *Strong Acids*: Vitriol, spirit of salt, aqua fortis, or nitric acid. Give no emetics; neutralise acid with magnesia or borax or lime-water, in milk; or chalk, whiting, or wall plaster may be given with a little water. Demulcents—e.g., milk, white of egg, gruel. Caution: Carbonates like chalk or washing soda should be given in frequent small doses, as the carbonic-acid gas formed might distend or even rupture the injured walls of the stomach.

2. With *Oxalic Acid* and salts of sorrel use chalk or saccharated lime to form insoluble oxalate of lime, but not alkaline carbonates or magnesia. Castor oil or emetic; stimulants.

3. *Carbolic Acid*. Give Epsom salts solution in sips, a tablespoonful to a tumblerful of warm water. No oils. Warmth, stimulants, artificial respiration.

4. *Strong Alkalis*, as ammonia, quicklime, caustic potash and soda. Neutralise with weak acid, such as orange juice, lemon juice, or vinegar and water, with olive oil, raw eggs, or milk frequently sipped, or salad oil and vinegar may be used. Stimulants. Do not use stomach tube or emetics.

The use of the stomach tube and the hypodermic syringe and the choice of a physiological antidote rest with the medical man, but much can be done by way of first-aid treatment, and surely a knowledge of chemical antidotes and the giving of an emetic are things with which a pharmacist ought to be familiar. It is also quite as important to know what not to do as what to do, and the pharmacist, with his special training in chemistry, materia medica, and pharmacy, should be equal to this.

The lecture was listened to with evident interest, and a number of questions were asked and answered by the lecturer. In the discussion Mr. W. Kirkby, M.Sc., gave some interesting reminiscences of the arsenical beer poisoning which occurred some years ago in Manchester, and in the investigation of which he played a large share.

## Relaxation of Export and Import Prohibitions.

THE following alterations in the existing prohibitions of export have been made by the Board of Trade since our last published list (*C. & D.*, March 15, p. 66):

### Goods on the Export Free List.

Certain additions to the free list of exports have been approved, and a consolidated list of those articles of drug-trade interest is given below. This list has been adopted by all the Associated Governments, and comes into effect from March 15. It applies to all non-enemy destinations, and to those enemy destinations with which trading is now permitted. As regards certain of the articles, the condition of supplies in the United Kingdom necessitates their retention upon the prohibited list for the present, although guarantees against re-export will not be required in respect of them. These articles are shown separately at the end of the list. The present list cancels all previous lists and notices.

### Goods which may be Exported without Licence or Guarantee.

Brushes of all kinds; cash registers; celluloid wares; china clay; dental filling materials; dental burs. Drugs, etc., the following: Acetyl salicylic acid; aconite and its preparations and alkaloids; agaric; althaea root; amidol and substitutes; amidopyrin, argentamin; arsenical salts for medicinal use; arsenobillon; arsenious acid; bromine; butylchloral hydrate; cacodylate; chamomile; chromic acid; diethylbarbituric acid; digitalis; duboisin sulphate; eucaine; ferric compounds; ferrum redactum; fructus foeniculi; hydrobromic acid; ichthyol; inula root; khar-sivan; metol; nitrate of silver; paraldehyde; phenacetin; salicylic acid; saltcake; sodium arsenate, sodium bromide,

sodium nitroprusside; sodium salicylate; veronal sodium. Glassware; ink, other than printers' ink; iris root (orris root); medicinal herbs, except henbane; medicines, proprietary and patent, except such as contain quinine, cocaine, santalin, cod-liver oil, malt extract, opium or opium alkaloids; mineral waters, unsweetened; oils, essential; peel of citrus fruits in brine; perfumery; photographic goods, but not chemicals therefor; pumice stone; razors, safety, and blades; salt, table; salt (other than table), except for Norway; spectacles and eyeglasses; teeth, artificial; theatrical properties, wigs and cosmetics, excluding costumes and footwear; toilet preparations, excluding soap.

### Goods which may be Exported without Guarantee.

The following are goods which remain on the prohibited list under their present classification, but for which guarantees are not required: Barium sulphate, betanaphthol; folia hyoscyami (henbane); opium and its alkaloids and preparations; dyes and dyestuffs; fruit, fresh, and fruit juice unsweetened; medicines, proprietary and patent, containing quinine, cocaine, santalin, cod-liver oil, malt extract, opium or opium alkaloids; spirits, potable.

### Headings Transferred from One List to Another.

From "A" to "C" list: Cryolite; goldbeaters' skin; lead, dry white; resins, wax, paraffin; articles containing asphalt; articles containing bitumen; casein and preparations thereof; gall nuts; hemp-seed oil, kapok-seed oil, maize oil, mowrah-seed oil, niger-seed oil, olive oil, poppy-seed oil, rape-seed oil, shea butter, sunflower oil; santalin and its preparations; soda, bichromate of; sulphonal. From "A" to "B" list: Barium sulphate; potassium chlorate and mixtures containing potassium chlorate; potassium cyanide and mixtures containing potassium cyanide; potassium perchlorate; potassium prussiate; and mixtures containing potassium prussiate. From "B" to "C" list: Chrome ore; ferro-vanadium.

### Headings Altered.

Delcte.	Substitute.
(A) Glucose.	(A) Glucose, liquid.
	(C) Glucose, solid.
(A) Rice and rice flour and articles, mixtures, and preparations containing rice or rice flour.	(A) Rice and rice flour.
	(C) Articles, mixtures, and preparations containing rice or rice flour not otherwise prohibited.

### Exports of Certain Proprietary Articles.

The Director of the War Trade Department announces that an open general licence has been issued permitting the export of the undermentioned proprietary articles to all non-enemy destinations without the production of the usual guarantees against re-export, and to those enemy destinations with which trading is now permitted. Application to the War Trade Department is therefore no longer necessary in respect of these goods: Anarsarin; gastrogen tablets; sal hepatica; mum; sorbefacin; hyodin; glyco-thymoline; lysoform; furoneuline; Hayden's viburnum compound; unguentine; ergo-apiol; chologestin; tablogestin; thialion; absorbine; absorbine jr.; pepto mangan; zepto; alexine; bell-ans. A previous open general licence for certain proprietary articles was announced in the *C. & D.* February 22 (p. 61) and March 15 (p. 66).

### Export of Lime-juice Cordial.

The Director of the War Trade Department announces that an open general licence has been issued permitting the exportation of lime-juice cordial to all destinations except those destinations to which goods on List "C" are prohibited from export. Applications to the War Trade Department will in future not be required in respect of this commodity when it is desired to export it to destinations other than those specified.

### Exports to Rhine Towns.

The Director of the War Trade Department announces that he is prepared to consider applications to export goods to the occupied area on the left bank of the Rhine (including Luxemburg) under the following conditions:

1. The proposed consignee should approach the Allied Military Authority in the particular zone in which he resides for permission to import the goods he requires. At the same time he should communicate with the exporter in this country.

2. The Allied Military Authority will then submit the application, if approved by them, to the Inter-Allied Economic Committee at Luxemburg, who will consider the application together with other similar ones received by them from other importers.

3. If the Inter-Allied Economic Committee approve the application they will telegraph to the War Trade Department, who will then be prepared to grant an export licence provided the goods can be spared from this country.



## Medical Gleanings.

### Nasal Disinfection.

To rid the naso-pharynx and accessory sinuses of infective organisms, Woollacott, in a recent issue of "The Lancet," recommends a form of treatment which aims at cleansing out all the passages from the inside by causing increased secretion. A solution of menthol 3j. in 5viij. of spirit with a few drops of eucalyptus oil is used, one to two drachms of which are added to a pint of very hot water in a jug. The patient holds his head, covered by a towel, over this mixture for some minutes, sniffing vigorously, thereby causing a free discharge from the nose. The procedure is repeated from three to six times daily. The author is of opinion that this treatment may also possess a prophylactic value.

### Glucose in Bacterial Infections.

The fact that all pathogenic bacteria are capable of fermenting glucose, and thereby producing a definite acidity of the medium, which distinctly inhibits the production of bacterial toxic bodies, and further, that the presence of a small amount of glucose prevents the formation of indol by bacteria, induced Benians ("Brit. Med. Jour.," 1938, p. 669, 1918) to apply a 25 per cent. solution of glucose in bromidrosis, ozena, chronic otorrhoea, and chronic vaginal discharge. In the latter indication, treatment consisted in douching twice daily with a 25 per cent. solution of liquid glucose in warm water, or in the introduction nightly of a glucose pessary, 25 per cent., made up in a gelatin basis.

### Acriflavine Emulsion as a Wound-dressing.

Stowell ("Brit. Med. Jour.," 3035, p. 244, 1919) states that he has shared the disappointment which many surgeons have experienced in using 1:1,000 flavine solution in normal saline. The value of purified paraffin as a wound-dressing being now recognised, he sought a combination of paraffin and flavine, combining the properties of both. The author states that he is indebted to Mr. Griffith Humphreys, Ph.C., High Street, Northwich, for the patience and skill with which he has worked out a stable emulsion, the droplets of which, examined under the microscope, are seen to be similar in size to those in a good emulsion of cod-liver oil. The use of this emulsion as a wound-dressing has given him clinical results he had not dared to hope for. Mr. Humphreys' formula for the emulsion is as follows:

Acriflavine	...	...	0.1
Thymol	...	...	0.005
White wax	...	...	4.0
Liquid paraffin	...	...	76.0
Distilled water	...	...	20.0

It is put up in small sterile bottles. The author states that the price, which works out at 5s. for 18 oz., might be considered a disadvantage, but in view of the results obtained the emulsion is well worth the price.

### Treatment of Influenza.

Small and Blanchard ("Brit. Med. Jour.," 3035, p. 241, 1919) mention that they had ample opportunity of testing systematically the action of various medicinal agents with a view of determining their relative value in the treatment of influenza. Gelsemium was found to exert a striking effect, and all recent cases were treated by the authors with the following:

Tinct. gelsemii	...	...	mxij.
Tinct. belladonnæ	...	...	mv.
Potass. citr.	...	...	gr. x.
Syr. aurant.	...	...	3j.
Aq. chloroform. ad	...	...	3j.

One ounce four-hourly for the first twenty-four hours; thereafter  $\frac{1}{2}$  oz. every four hours until temperature is normal.

Gelsemium exerts a marked beneficial action on the course of the disease; it tends to shorten the illness, and it undoubtedly relieves, and that rapidly, the discomfort of the patient, particularly the headache and backache.

Davey ("Brit. Med. Jour.," 3035, p. 246, 1919) prescribes the following in cases of influenza:

Sod. salicyl. (B. W. & Co.)	...	gr. vij.-x.
Spir. ammon. arom.	...	mx.
Spir. chloroformi	...	mx.
Tinct. belladonnæ	...	mv.-vij.

Every four hours.

The belladonna removes the frontal headache. If there is irritable cough, the author adds to the dose 5 minims of antimonial wine.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ANGLODOL, LTD. (P.C.).—Capital 25,000*l*. Objects: To acquire the business carried on by Sir Richard Ashmole Cooper at Berkhamsted as the "Odol Chemical Works." R.O., 98 Wigmore Street, London, W. 1.

SURREY CHEMICAL CO., LTD. (P.C.).—Capital 1,500*l*. Objects: To carry on business as chemical manufacturers, soap boilers, chandlers, drysalterers, manufacturers and refiners of soda, Epsom salts, oils, fats, etc. R.O., Nye's Wharf, Frensham Street, Peckham Park Road, London, S.E.

G. T. IGGLEDEN & CO., LTD. (P.C.).—Capital 12,000*l*. Objects: To carry on business as importers, exporters, distributors, and manufacturers of and agents for spices, drugs, seeds, cereals, cocoa, cocoa-butter, chocolates, confectionery, oils, nuts, kernels, fruits, foodstuffs, cattle foods and medicines, etc. R.O., 14 Water Lane, London, E.C.

SOUTH LONDON MANUFACTURING CO., LTD. (P.C.).—Capital 10,000*l*. Objects: To carry on business as soap manufacturers, manufacturers of industrial chemicals, pharmaceutical preparations, drugs, dyes, colours, varnishes, chemical manures, disinfectants, tar, oil, etc. Agreement with the Associated Chemical and General Industries, Ltd. R.O., 125 High Holborn, London, W.C.

W. BENNISON & CO., LTD.—The registered office of this company (*C. & D.*, March 15, p. 54) is 59 Mark Lane, London, E.C. 3.

GERMAN DYE ISSUE.—Despite uninviting current events, says the "Financial Times," the Badische Anilin und Soda Fabrik, of Ludwigshafen, has decided to make an issue of debentures to the extent of 50 million marks, bearing interest at 5 per cent. per annum. The issue has been taken firm by a consortium of German banks at 96*½*.

EVANS SONS LESCHER & WEBB, LTD.—The report of the directors for the year ended December 31, 1918, states that all trade expenses have been written off, and ample provision has been made for bad and doubtful debts, depreciation, advertising, trade-marks, income tax, and leasehold sinking fund, also for excess profits duty. Interest on the debenture stock and dividend on preference shares, and an interim dividend on ordinary shares in July last, and fees and salaries to the directors have been duly provided for, and there remains an available balance for further dividend on ordinary shares of 26,703*l*. 1s. 7*d*. The directors have to report a satisfactory year's trading notwithstanding that the severe restrictions in shipping and the scarcity of ships to various countries continued during the year. The friendly business relations with Allied and neutral countries are still maintained. The world-wide development of the company's business has necessarily entailed a still further demand upon the various manufacturing departments at Liverpool and Runcorn. Developments in the manufacture of new and old preparations have during the year steadily progressed so far as has been compatible with war conditions. The directors wish to place on record their sympathy with their Chairman, and their fellow-director, Mr. A. B. Evans, both of whose sons have been seriously wounded during the past year, and are now lying in hospital in London, and express a wish for their ultimate recovery. Mr. Stephen F. Webb, a director, who has been awarded a bar to his Military Cross, is now demobilised and has returned to his duties at the London house. The Roll of Honour sent out with the report is a proud record and speaks for itself. It bears the names of 409 men, of whom forty-two have made the supreme sacrifice. The directors have to record, with sincere regret, the death, in May, of Mr. Frank Harwood Lescher, who was senior partner of the London firm before the formation of the company, and a director of the company until his retirement in 1907. They have also to record with regret the death of the Secretary, Mr. L. J. Prinney, who had only been appointed in the early part of the year. His successor is Mr. George E. Gillard. The cordial relations with the National Drug and Chemical Company of Canada, Ltd., continue. The directors recommend that for the second half-year a dividend at the rate of 10 per cent. per annum be paid on the ordinary shares, making 10 per cent. for the year, also a bonus of 2*½* per cent. for the twelve months. This, with the interim dividend of 10 per cent. per annum declared for the first half-year, and placing 5,000*l*. to reserve, leaves 10,457*l*. 1s. 7*d*. to be carried forward. Mr. K. W. F. Evans, Mr. E. A. Webb, and Mr. J. N. Evans retire from the Board, and, being eligible, offer themselves for re-election.



## Legal Reports.

**Sale of Food and Drugs Acts.**—At Birmingham, on March 14, Hedges (Chemists), Ltd., were summoned for selling "ground liquorice root" certified by the city analyst to contain excess of ash and to be deficient in soluble matter. Mr. Marshall Freeman (instructed by Wallace Robinson & Morgan) appeared for the defence. Purchase having been proved, Mr. J. F. Liverseege, Ph.C., the Birmingham city analyst, gave evidence, and, cross-examined by Mr. Marshall Freeman, said that he could not produce any standard work or other authority in which would be found the statement he had made to the effect that "ground liquorice root" should not contain more than 9 per cent. of ash, and at least 16 per cent. of it should be soluble in water. Counsel handed to the witness a piece of whole liquorice root and asked him whether he agreed that if that piece of root were ground the proper description of the product would be "ground liquorice root." Witness agreed. Some amusement was created in Court by the advocate inviting the magistrates to taste the substance in question. Mr. Liverseege, in reply to further questions, admitted that ordinary ground liquorice root and ground decorticated liquorice root were two totally different substances. Samples of the whole root powdered and of decorticated powder and of compound liquorice powder were handed to the magistrates, and defending counsel took Mr. Liverseege through the history and uses of them all. In answer to the Magistrates' Clerk, the witness stated that he did not know of any purpose for which the entire ground root would be required by the public. Mr. Henry Rigg, chemist and druggist, secretary and manager of the defendant company, stated in evidence that he had had twenty-six years' experience as a chemist, and that the article supplied was not an adulterated article, but the natural ground root, which was an ordinary article of commerce known as "ground liquorice root." This was never sold for medicinal purposes, but was largely used in veterinary practice. It was intended to cover up bitter drugs, and for that purpose was kept in stock and sold by most chemists—especially in country places. This ground liquorice root was practically an inert substance which had little, if any, medicinal property about it. The Magistrates' Clerk asked counsel if he purposed raising the point that ground liquorice root was not a "drug." Mr. Marshall Freeman said that he had carefully considered that point, and though personally he had no doubt whatever that the article was not a drug, he was appearing for a very important firm, and, as their reputation was at stake, it had been decided that they would not seek shelter behind any technical point. After a consultation, the Chairman said they had given very careful attention to a most interesting subject, and without requiring further evidence they had come to the conclusion that the prosecution had failed to make out their case. The summons would therefore be dismissed. Mr. Marshall Freeman said that being so he felt it his duty to observe that he had never known any occasion upon which a firm such as his clients, who were probably the oldest chemists in the city, had suddenly and without any warning or complaint been served with a summons in this manner. He strongly pressed for an order that the costs of the defence should be paid by the local authority. After consideration, the Chairman said he did not think the proceedings were quite of the vexatious nature which would have justified an order for costs. Mr. Marshall Freeman then suggested that the Health Committee might regard it as their duty to pay the costs of the defence voluntarily.—At Marlborough Street Police Court, London, on March 14, W. & G. Buszard, Ltd., Oxford Street, W., were fined 20*l.*, with 3*l.* costs, for selling a coloured mineral oil as salad oil. A food inspector to the Westminster City Council stated in evidence that he paid 4*s.* at the defendants' shop for the quantity produced in court—less than half a pint. The explanation given in a letter from the defendants was that the oil had been bottled through an employé's mistake.

**"Burford" as a Trade-mark.**—The Court of Appeal on March 14 decided that H. G. Burford & Co., Ltd., were entitled to proceed with the registration of the word "Burford" as a trade-mark for motor-cars. The Court consisted of the Master of the Rolls, Lord Justice Scrutton, and Mr. Justice Eve. The case had been decided against the applicants by Mr. Justice Sargant, and it was from this judgment that an appeal was made. The Master of the Rolls, in the course of his judgment, said the weakest point in the applicants' case was that the mark had only been used by them since 1915, but, having regard to the nature and rapid growth of the business and the wide area over which it extended, the short period was not a fatal

objection. When once it was established that the name had become distinctive, the fact that it had achieved that purpose in a short time ought not to prevent its registration. If the applicants were to use their common-law trade-mark for another twenty years and then apply for registration it would still be open to urge the objection put forward that some Burford yet unborn might arise at some future time and enter the motor-car trade. No length of user until there was another Burford in the field would meet that objection. Length of user, in his opinion, was only important in considering the question of fact whether the name-mark had really and truly become distinctive of the applicants' goods. In the present case, however, he was of opinion that the distinctive character of the word "Burford" had been clearly proved, and that the appeal should be allowed and the application should be directed to proceed. Mr. Justice Scrutton, in a dissenting judgment, said that surnames *prima facie* were adapted to distinguish the goods to which they were affixed from goods made or sold by persons who did not bear that surname, but they tend to confuse those goods with goods made or sold by other persons who did bear that surname. His Lordship, continuing, said that he thought the evidence was not sufficient to prove distinctiveness giving a monopoly over the whole of the United Kingdom, and that the user was too short. If this application were allowed it would be difficult to refuse any first user of a surname in a comparatively new trade after a very short exclusive use. Further length of user might, however, confer sufficient distinctiveness to enable the application to succeed hereafter. He did not understand that he was differing from the other members of the Court on any question of law, but only on the quantity of the evidence required to enable a monopoly to be acquired in a name which was not *prima facie* adapted to distinguish. Mr. Justice Eve said that in dealing with an application to register a surname which, *prima facie*, was not a distinctive mark in that it was not adapted to distinguish the goods of the proprietor from those of other persons who bore the same surname, but which was alleged to have become distinctive by user, the following factors were all such as ought to be taken into consideration: (1) The extent to which the actual user down to the date of the application had in fact rendered the mark distinctive of the applicants' goods. (2) The probability, or the reverse, that this degree of distinctiveness would be maintained in the future; and, in connection with this—(3) The characteristics of the name—that was to say, was it a very unusual name, or an unusual one, or one in common use? (4) The trade or manufacture in which the name was employed. Was it one restricted to a comparatively small class of the community, or was it one in which a large number of individuals were likely to embark? Was it one in which the employment of a surname was common? (5) The class of goods of which the mark was distinctive and the way in which it was used in connection with them. Were they goods in which the mark was a prominent feature? (6) Were there any circumstances calculated to induce the belief that the present distinctiveness was due to temporary or exceptional causes? (7) The extent to which registration would control the freedom of individuals of the same surname who might thereafter embark on the manufacture of the same goods. (8) Would registration tend to protect the public from imposition, or the reverse? His Lordship proceeded to examine the evidence, and came to the conclusion that, so far as the first six factors were concerned, the applicants were entitled to claim that a just estimate of the aggregate weight to be attached to them in the circumstances here existing pointed strongly in favour of permitting registration. The application, he ruled, ought to be allowed to proceed.

## Business Changes.

MR. JOHN GEORGE HALLER has removed to Mildmay Chambers, 69 Bishopsgate, London, E.C. 2.

JOHN MURDOCK & Co. have removed to 7 Union Court, Old Broad Street, London, E.C. 2.

ROBARTS, LTD., toilet articles manufacturers, have removed to Dyer's Buildings, Holborn Bars, London, E.C. 1.

HAWKER & BOTWOOD, LTD., agricultural chemists, have removed to larger premises at 50 Mark Lane, London, E.C. 3.

MR. F. TATTERSALL, chemist and druggist, 5 Claremont Terrace, North Shore, Blackpool, is removing to larger premises at 2A Claremont Terrace.



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### NATIONAL HEALTH INSURANCE EXTENSION.

Major Astor stated on March 10, in the House of Commons, that preliminary conferences are at the present time taking place between representatives of the medical profession and the National Health Commissioners, preparatory to a general review of the medical services for insured persons, including questions of possible extensions.

### IMPORTS OF MANUFACTURED GOODS.

Mr. Bridgeman stated in reply to a question from Sir Richard Cooper, in the House of Commons on March 17, that the declared value of goods classed as wholly or mainly manufactured, registered as imported into the United Kingdom, free of import duty, during each of the first two months of the present year amounted, in round figures, to 26,600,000*l.* in January, and to 18,700,000*l.* in February.

### DENTISTS ACT INQUIRY.

Our Parliamentary Correspondent states that, although there is no possibility whatever of any legislation on the lines of the Acland Departmental Committee being introduced during the present Session, the question of dental treatment reform will, of course, be one of the earliest matters to engage the attention of the new Ministry of Health so soon as that body is set up by Act of Parliament. It is expected that the whole question of dentistry will be relegated to a separate sub-department of the Ministry.

### NEW BRITISH INDUSTRIES.

Mr. Grattan Doyle, on March 17, asked whether it is the intention of the Government to make subsidies under certain specific safeguards to certain new manufacturing enterprises in this country for the extension of old or the creation of new industries; and whether in the case of such industries so subsidised, where articles are available for export, will the restrictions as applicable to non-blockaded and blockaded countries apply.

Mr. Bridgeman replied that the extent to which State assistance should be accorded to special industries, and the terms which any such assistance should take, are under consideration. As regards the second part of the question, he was not in a position to say what restrictions on the direction of exports from this country may be deemed necessary or desirable.

### SALVARSAN SUBSTITUTES.

Mr. F. Green asked the President of the Local Government Board on March 13 what guarantee the Government have that the remedies approved by them as substitutes for salvarsan are exactly similar, or even approximately similar, to the remedy as discovered and patented by Ehrlich.

Mr. Pratt, who replied, said that all the approved substitutes, except galy, are manufactured under licences issued by the Board of Trade for the express purpose of allowing the manufacturers to employ the processes which are used in the manufacture of the original salvarsan and which are protected by patents. The presumption is, therefore, that the drugs produced by these manufacturers are similar to the original article. For the protection of the public all the approved substitutes are tested on behalf of the Medical Research Committee before being placed on sale. He understood that the Salvarsan Committee appointed by the Medical Research Committee have already considered the question, and that they will shortly issue a report in regard to it.

### APPRENTICES.

Sir R. Horne, Minister of Labour, stated in the House of Commons on March 18 that a scheme for assisting those persons, whose apprenticeship was interrupted by service in his Majesty's Forces, to complete their apprenticeship, has been approved by the Government. Among other matters the scheme provides:

- (i) For a reduction of the unexpired period of apprenticeship;
  - (ii) For a State grant to the apprentice of one-sixth the journeyman's rate as soon as the apprentice has reached the age when, but for the war, his apprenticeship would have been completed;
  - (iii) For such contributions on the part of employers as will, with the State's allowance, make up the apprentice's wages to not less than three-quarters of the journeyman's rate for the first year of training and to not less than five-sixths for the second year;
  - (iv) For the scheme, embodying these and other provisions, to be drawn up by National Industrial Councils or by other committees representative of the industry;
  - (v) For a maintenance allowance, under certain conditions, to allow of training in a technical school or institution.
- Negotiations with Industrial Councils and Committees and Trade Union representatives are now being carried on for the purpose of finally fixing the terms.

### COCOA-BUTTER.

Sir William Bull, in the House of Commons on March 17, asked the Food Controller whether, with the consent of the Government, large contracts have been placed for American cocoa-butter at 2*s.* 3*d.* per lb. in London, whereas the British manufacturer is precluded from obtaining more than 1*s.* 6*d.* for his butter, produced by British labour in this country, the quality in both cases being equal; whether, as a result of the American manufacturer being allowed to obtain a higher price for his butter in this country than the British manufacturer, the former is enabled to dispose of and sell the twin product—namely, cocoa-powder—at a price which entirely excludes English competition from all European markets; and is he aware that, if the British manufacturer is excluded from the European markets, this will compel reduction in output and consequent unemployment, apart from the loss of foreign markets to the British manufacturer.

Mr. McCurdy replied that owing to the shortage of home-produced cocoa-butter the restrictions on its importation have recently been removed, and it is possible that some contracts for the purchase of this article have been placed in the United States of America, although he was not aware of the prices paid. A general licence is, however, being issued, which comes into force at once, which authorises the sale of cocoa-butter, whether home produced or imported, free from all restrictions, as to price or otherwise, imposed by the Cocoa Butter (Provisional Prices) Order, 1918, and the Cocoa Butter (Requisition) Order, 1918.

### MINISTRY OF HEALTH BILL.

This Bill is being considered before Standing Committee A. There have been two meetings of this Committee under the chairmanship of Sir A. Williamson. Clause 11 provides that it shall be the duty of the Minister of Health to take all desirable steps to secure the effective carrying out of the co-ordination of measures conducive to the health of the people, including measures for the prevention and cure of disease. Major Astor, in reply to objections as to the wide scope of the clause, undertook to insert words making it clear that power was not given to impose regulations such as 40*n* of the Defence of the Realm Act and make people submit to treatment. Another amendment which was withdrawn sought to make venereal disease notifiable, but Dr. Addison said that this would tend to prevent persons from obtaining early treatment. It was suggested in a further amendment that power might be given to the Minister of Health to subsidise the labour of consumptives and ex-consumptives, but this was withdrawn on the assurance that a Committee is already considering what should be done with tuberculous subjects. The Government have no intention of making the treatment of disease compulsory, except in the case of infectious diseases, was another pronouncement of Dr. Addison. Clause 3 provides, among other things, for the transfer of the Medical Research Committee of the National Insurance Commissioners to the Privy Council. Sir Philip Magnus moved an amendment providing that the powers and duties to be transferred should include those hitherto performed by the Medical Research Committee. He held that it is most desirable that the Research Department should be under the control and supervision of the Minister of Health, so that he could refer to it the problems relating to research as they arise. Sir Kingsley Wood asked the Committee to bear in mind that this Ministry of Health would have its own Research Department, and it was well that there should be a Research Department which had a certain amount of independence. This Bill was limited to England and Wales, and the work of the Research Committee should not be brought into a Ministry of which the powers were limited to England. Major Astor pointed out that as to the Research Committee, under the Privy Council its work had no national boundaries. It was under no Minister, and he was opposed to its being brought under any Minister. The Local Government Board had always had power of research, and had exercised it, and that same power would be vested in the Minister of Health. The amendment was withdrawn on an assurance that on the report stage words would be inserted to make clear that the Minister of Health had power of initiation in regard to work of research. Considerable discussion took place regarding the transference of certain powers from the Board of Education which concern the health of school children. Dr. Addison opposed the transfer at the present time, but eventually an amendment was agreed to which makes the transference possible by Order in Council. The powers and duties of the Home Office are not to be exercised by the Minister of Health, although Sir Philip Magnus and Lord H. Cavendish-Bentinck pointed out the anomalous position which would be created by the retention of health functions by the Home Office.



## Deaths.

**BECKETT.**—At Windsor Road, Southport, recently, Mr. William Beckett, Ph.C., aged eighty-three. Mr. Beckett, who passed the Major examination in 1866, carried on business for many years at Hopwood, Lancs, where he founded the firm of fruit-cordial manufacturers bearing his name. He had of late been living in retirement.

**BELL.**—At Eastbury, Sandiacre, on March 12, Rosa, the beloved wife of Mr. J. Henry Bell, chemist and druggist, late of Stapleford, Nottingham.

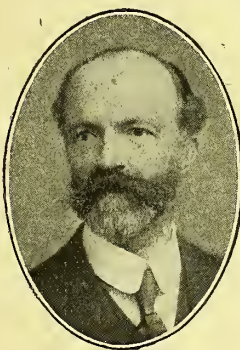
**BURDEN.**—At "Hollycroft," Ratcliffe Road, Leicester, on March 4, Mr. Oliver Burden, chemist and druggist, aged seventy-six. Mr. Burden was in business before August 1, 1868.

**CLAYTON.**—At Mountgrove Road, Highbury, London, N. 5, on March 13, of influenza and pneumonia, Mr. Thomas Clayton, pharmacist, aged sixty-five.

**DENNIS.**—At Northampton, on March 12, the wife of Mr. Ernest E. G. Dennis, chemist and druggist. Mrs. Dennis, who was a native of Downham Market, had a paralytic seizure a fortnight before her death. She had of late done a great deal of work on behalf of Red Cross and Prisoners of War funds.

**GOODWIN.**—At 16 Crossfield Road, London, N.W. 3, on March 4, Miss Flora Adelaide Goodwin, chemist and druggist, aged thirty-seven.

**MATTHEWS.**—At his residence, "Lyncroft," Bushwood, Leytonstone, on March 16, of heart failure, Mr. John Henry Matthews, chemist and druggist (Matthews & Son, chemists), aged sixty-three.



MR. J. H. MATTHEWS.

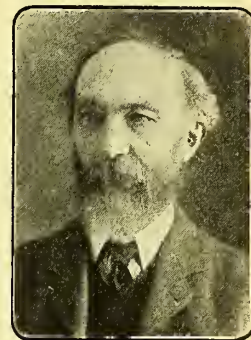
Mr. Matthews was born at Cambridge Park, Wanstead, London, E., where his father had a pharmacy for many years. He qualified in 1877 after studying at the Bloomsbury Square School of Pharmacy, and subsequently opened in business at Harrow Green. After a while he broke fresh ground at High Road, Leytonstone, where he established himself so successfully that he acquired other businesses at Woodford, Wanstead, and Ilford. At the time of his death Mr. Matthews was Chairman of the Essex Pharmaceutical Committee, Treasurer of the Essex County Association of Pharmacists, and Vice-Chairman of the Leyton Urban District Council. The holding of these offices simultaneously was typical of his manifold activities. In the course of his strenuous career he had been a Divisional Secretary of the Pharmaceutical Society of Great Britain, President (1904) of the West Ham and District Association of Pharmacists, and President (1913) of the Essex County Association of Pharmacists. When he retired from the last-named office, after three years' continuous service, he was presented with a silver rose-bowl subscribed for by his fellow-members (*C. & D.*, 1916, p. 542); and the function was made the occasion of many tributes of esteem and appreciation. Mr. Matthews had of late been suffering from bronchitis, but to all appearance was progressing favourably when the end came with unexpected suddenness. He is survived by a widow, two sons, and five daughters: of the daughters, two are married and one is engaged to Mr. Alexander Catto, the newly-elected President of the West Ham and District Association of Pharmacists. Mr. Leonard Matthews, chemist and druggist, who qualified in 1911, has for some time been associated with his father in business.

**RICHARDS.**—At 57 Old Tiverton Road, Exeter, recently, Eliza, widow of the late Mr. Alfred Richards, chemist and druggist, 11 Cowick Street, St. Thomas's, Exeter.

**THOMAS.**—At Swansea, recently, Mr. Cyril Chiles Thomas, chemist and druggist, 188 High Street, aged twenty-seven. Mr. Thomas, who qualified in 1916, had only recently taken over the business. The funeral took place on March 17, when Messrs. John Gilbert, W. Isaac, and D. R. Davies were present on behalf of the Swansea and West Glamorgan Chemists' Association.

**WATSON.**—At Devonport West, Tasmania, on December 23, 1918, Mr. Robert Watson, chemist and druggist (late of Mathinna), aged sixty-nine. Mr. Watson was the brother of Mr. T. D. Watson, of Bayswater, who is a life Fellow of the Chemical Society.

**MACPHERSON.**—At Edinburgh, on March 15, Mr. Colin Allan MacPherson, chemist and druggist, 97 Dalry Road, aged sixty-six.



MR. C. A. MACPHERSON.

Mr. MacPherson served a seven-years' apprenticeship to Mr. Alexander McRae, Abbeyhill, Edinburgh, and during that time attended science classes. He qualified in 1874, and for the next five years was with an Edinburgh surgeon, his working hours being from 9 A.M. to 10 or 11 P.M. Pulmonary trouble set in, and he was ordered abroad for his health. Instead, however, he opened in business for himself, and eventually threw off the weakness. Mr. MacPherson was a practical pharmacist of the best type, and from time to time wrote papers on dispensing difficulties and other topics. In his leisure-hours he indulged in botanical, archaeological, and kindred hobbies. He was President of the Edinburgh and District Chemists' Trade Association in 1909.

**WILDGOOSE.**—At 143 Alfreton Road, Nottingham, on February 21, Mr. John Gratton Wildgoose, chemist and druggist, aged sixty-two. Mr. Wildgoose had been in business in Nottingham for many years. He was a member of the local Committee in connection with the visit of the British Pharmaceutical Conference in 1893.

### Died on Service.

**HARLEY.**—At Seclin, France, on May 8, 1918, of wounds received in action, Private Allan Langlands Harley, Seaforth Highlanders, aged eighteen. Private Harley, who was the younger son of Mr. Thomas Harley, chemist and druggist, Perth, had entered upon the study of medicine prior to joining the Army. After training he arrived in France on April 5, 1918, and was reported missing four days later (*C. & D.*, 1918, p. 421). It has only recently been ascertained that he was wounded, taken prisoner, and, together with a few others, left in the care of two nurses at Seclin, where he contracted fever after an operation and died.

## Personalities.

**MR. ALEXANDER JOHNSTON, J.P.**, general manager of the North British Rubber Co., Ltd., has joined the board of the company as managing director.

**SIR GEORGE ASKWITH**, Chief Industrial Commissioner, has received a peerage. The duties which he performed will in future be exercised by the Ministry of Labour.

**MR. EDGAR D. TOMLINSON**, who represents A. Berton, Ltd., surgical dressings manufacturers, in London, has moved to 35 Trossachs Road, East Dulwich, S.E. 22.

**MR. J. DE CARLE SMITH**, chemist and druggist (Smith & Sons, wholesale druggists, Norwich), has been elected a Vice-President of the Norwich and Norfolk Traders' Association.

**THE RANK OF CAPTAIN** has been granted to Messrs. Eric Davies and George Hinchliffe, both of whom were with Mr. J. J. Phillips, chemist and druggist, Ashton-under-Lyne, prior to joining the Army.

**MR. J. F. BUCKLEY, A.M.I.A.E.**, who is well known in connection with the development of the rotary and hand machines for making tablets, has been appointed manager of the "Light" Engineering Co., chemical engineers, Sopwell Lane, St. Albans. The company intends making tablet machines and other machinery required by the drug trade.

**CAPTAIN R. H. BRITAIN**, late of the Machine Gun Corps, and Mr. Ernest H. Britain, who has been employed as a chemist to the Inventions Department of the Ministry of Munitions, are now back with Prichard & Constance (Wholesale), Ltd., 469 Holloway Road, London, N. The business, which has been carried on in their absence, is now being "speeded up," and the disabilities of war-time trading are being overcome. One of the first requirements is a larger factory, the present premises having become inadequate.

**EUCALYPTUS OIL.**—During 1918, 806,977 lb. was distilled from forest areas in Victoria, an increase of 360,640 lb. over the 1917 output.



## Trade Notes.

**SQUIRE GILES' PIG-POWDERS.**—Kernick & Son, Ltd., manufacturing chemists, Cardiff, offer trial quantities of Squire Giles' pig thriving and worm powders.

**THE ANATOMY OF THE FOOT.**—The Scholl Manufacturing Co. Ltd., 1, 2, 3, and 4 Giltspur Street, London, E.C. 1, offer to send on approval to any of our readers a copy of Dr. Scholl's book, "The Human Foot."

**SPONGE TIME.**—Ayrton, Saunders & Co., Ltd., Liverpool, call attention to the fact that spring-time is the time for bringing forward sponges. A selection of prices for honeycomb and Florida sponges is given.

**MENE SANITARY TOWELS.**—Robinson & Sons, Ltd., Chesterfield, are now making a new size of Mene towels, which can be sold at 1s. per dozen. Particulars are given in the company's advertisement in this issue.

**AVERILL'S FOOT-ROT OINTMENT**, made by Mr. C. H. Averill, chemist, Lichfield, is a good line for agricultural chemists. The price is protected under the scheme of the Proprietary Articles Trade Association.

**"ALLENCO" ANTI-CATARHUS STICK** is an influenza and cold preventive, the trade terms for which are given in the announcement of R. H. Allen & Co., manufacturing chemists, 122-124 Wells Road, Sydenham, London, S.E. 26.

**SPECTACLE LENSES.**—"The Optician" states that the factory at Mill Hill, London, W. 3, which belonged to the Zeiss, an enemy firm, is to be converted into a spectacle-lens factory. Work is to be carried out on a very large scale.

**SURGICAL DRESSINGS.**—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C. 1, advertise standard packages of surgical dressings conforming to the specifications of the National Health Insurance Drug-tariff. The prices at which these dressings are offered are calculated to yield a profit at the Insurance tariff rates.

**BUTLER'S PLATE POWDER.**—William Butler & Co., 28 Broughton Street, South Lambeth, London, S.W. 8, send up a sample of their silver and plate powder, which is put up in 7d. and 1s. tins or 2s. 6d. and 4s. 6d. caskets. The powder, which is attractively packed in blue and silver, is prepared entirely by disabled soldiers and sailors.

**SOLUBLE OIL** is coming into greater use in pharmacy for making liquid soaps, disinfectants, sheep-dips, etc. Experimental work on soluble oil will probably yield many more suggestions for utilising its peculiar properties. The oil is advertised in this issue by Stanford, Wylie & Fraser, Argyle Oil and Chemical Works, Fossilpark, Glasgow.

**PRICE-LIST.**—H. Brounley & Co., Ltd., Acton Vale, London, W., send us a copy of their new price-list of perfumery and soaps which is just being issued to the trade. The list is beautifully produced, the pre-war standard in printing and style having been reached. The illustrations are well done, some of the half-tone blocks being produced in colour. A copy of the list will be sent to any of our subscribers who desires one.

**"HONORA" TOILET SOAP.**—Price's Patent Candle Co., Ltd., Battersea, London, S.W. 11, send us a sample box of their new peace-time product—"Honora" toilet soap. The box, holding six tablets, has upon it a beautiful design emblematic of the coming of peace. The soaps are wrapped in white, with coloured lettering and a reproduction of a tricolour ribbon. The company have also evolved a good idea in the form of a cardboard box and seal medallion for advertising the soap on chemists' windows. Inquiries as to window-shows should be made now.

**P.A.T.A. YEAR-BOOK.**—The 1919 edition of the Year-book of the Proprietary Articles Trade Association, 113 Temple Chambers, Temple Avenue, London, E.C. 4, has just been issued. The list of protected articles has been made up to December 1918 inclusive. The "Year-book" also contains lists of manufacturers whose goods are protected and its other usual particulars. The annual report and balance-sheet of the Chemists' Defence Association, Ltd., occupy the concluding section of the book, in which the rules of the Veterinary Section of the C.D.A. are now given.

**"STANDARD" RETAIL LIST.**—Mr. Charles Philip, 23 High Street, Heme Bay, sends us a copy of the March issue of his "Standard" retail price-list of drugs, surgical dressings, and "patents." The improvements this month consist in indicating by an italic letter, "h" or "l," those articles which are higher or lower than the previous price. Mr. Philip informs us that he is making headway with his list, and that he is constantly adding to his subscribers. It is noticeable, he adds, that these include many well-known people, who recognise that pharmacy, to be successful, must be carried on on business principles.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

- (From "The Trade-marks Journal," February 19, 1919.)
- "REVERIE"; for perfumes and hair oils (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E. 15. 386,398; 387,264/356.
  - "VELVIA"; for an emollient skin preparation (48). By Maison Grossé, Ltd., 2 Bold Place, Liverpool. 386/712.
  - "EROS"; for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 387,265.
  - "SHEBASH"; for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W. 1. 387,358.
  - "OL-IN-OL"; for polishes, etc. (50). By Minards Liniment Manufacturing Co., Eames Street, Framingham, Middlesex, Mass., U.S.A. 385,602.

- (From "The Trade-marks Journal," February 26, 1919.)
- "U.S. INDUSTRIAL ALCOHOL CO." on shield device; for chemicals (2 and 3), food substances (42), fermented liquors, etc. (43), mineral waters, etc. (44), perfumery, etc. (48), and fuel (50). By U.S. Industrial Alcohol Co., 27 William Street, New York, U.S.A. 386,305/6/7/8/9/10/11. (Associated).
  - "AGOS"; for chemicals (2). By Agos, Ltd., 35 Load Street, Bewdley, Worcestershire. 386,966. (Associated).
  - "FERRET"; for disinfectant soap (2). By A. Davies, 25 Ratcliff's Buildings, Moorfields, Liverpool. 387,002.
  - "C.Q. CREAM CURES QUICKLY," etc., on label ("C.Q." disclaimed); for a curative cream (3). By The Pharmaceutical Products Co., Craigleith, Edinburgh. 385,230. (Associated).
  - "GRACO"; for all goods (3). By Grace Bros. & Co., Ltd., 144 Leadenhall Street, E.C. 3. 385,933. (Associated).
  - "EMPIRE"; for medicinal chemicals (3). By A. de St. Dalmas & Co., 40 Belgrave Gate, Leicester. 386,251.
  - "PYORRHEA ASTRINGENT PROPHAX BRAND"; for all goods (3). By The Western Dental Manufacturing Co. (1914), Ltd., 75 Queen's Road, Bristol. 386,348.
  - "LOTION COMPLEXIL BRAND"; for a medicated lotion (3), and a toilet lotion (48). By J. D. M. Montgomerie, 33 Falkland Mansions, Glasgow. 386,437/8. (Associated).
  - "OLIPEL"; for all goods (11). By Oliver-Pell Electric and Manufacturing Co., Ltd., Granville House, Arundel Street, London, W.C. 2. 386/724.
  - Monogram "S. & O."; for surgical instruments (11). By The London Surgical and Optical Instrument Makers and Engineering Co., Ltd., 1-11 Larch Road, Balham, S.W. 12. 386,992.
  - "TAKARO"; for toilet paper pads (39). By S. J. Gissing, 38 Woburn Place, London, W.C. 1. 384,897.
  - Device of crowing cock on gate and words "Worth Crowing Over" for food substances (42). By C. E. Keene, 54 Saxe Coburg Street, Leicester. 386,448.
  - "BUNNY BRAND"; for baking powder (42). By The British Wheat Salts Co., Ltd., Moseley Street, Birmingham. 386,700.
  - "HENSECO"; for food substances (42). By H. G. Sears, 10 Borough High Street, London Bridge, S.E. 1. 387,338.
  - "OSMOS"; for artificial mineral waters (44). By Valentin, Ord & Co., Ltd., Crown Wharf, Hayes, Middlesex. 386,477.
  - "MERMAN"; for goods (47), perfumery, etc. (48), and for polishes, etc. (50). By T. Hedley & Co., Ltd., City Road, Newcastle-on-Tyne. 386,795/6/7. (Associated).
  - "PEREDYNIA"; for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W. 1. 387,357.
  - "HELVETIA" over device of statue ("Helvetia" disclaimed); for goods (50). By M. C. Steinman, 34 Fenchurch Street, E.C. 3. 385,713. (Associated).
  - "PEXA"; for casein preparations and goods (50). By Apex Stamping Co., Ltd., 31 North Albert Street, Fleetwood, Lancs. 385,746.
  - "BRITON" and device ("Briton" disclaimed); for brushes (50). By S. D. Page & Sons, Ltd., Hayhill, Norwich. 386,414. (Associated).
  - "G.W.A.B." and device ("G.W.A.B." disclaimed); for adhesives (50). By A. S. Wright & Sons, Astill Street, Stapenhill, Burton-on-Trent. 386,551.

## Information Department.

### INFORMATION WANTED.

- |  |  |
|--|--|
| 86/48. Panelled cough-mixture bottles, "Trident" trademark; makers or agents | 74/74. Gold embossing machines for labels and toilet-boxes: makers |
| 89/47. Rase, Cornu Cervi; supplies   | 82/29. Poroplastic felt (source of supply)                         |
| 91/63. Inhal tablets   | 93/56. "Californian" borax soap                                    |
| 81/12. "Athlo" pottery-ware  |  |

### INFORMATION SUPPLIED

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| Anæsthesin, 91/68                     | Macnura vibrator, 56/35              |
| "Ankh" brand digestive tablets, 72/11 | Malt and cod-liver oil extract, 41/4 |
| "Antapals", 82/26                     | "Manalax", 45/61                     |
| "Kas-bah" kidney-cure, 236/57         | "Pine Tree" lozenges, 41/4           |
| Kinetic tablets, 61/59                | Pinheroin, 45/59                     |
| Kinetic magnesia, 69/62               | Porcelain laboratory ware, 52/52     |
| Labelling machines, 250/44            | Potassium bicarbonate, 8/23          |
| Lactol tablets, 4/38                  | "Zon-vac" vacuum flask, 5/37         |
| "Lactobacilline" tablets, 14/62       | "Zymate" tooth-paste, 53/30          |



## Observations and Reflections.

By Xrayser II.

### The Circular Letter

of the Scottish pharmacists on the subject of the Ministry of Health is a model of what such a letter should be, and if it has not already done so our Council ought to follow suit without delay. It puts pharmacy on a proper footing in relation to the public health service, without exaggerating its claims to recognition, yet stating them fully and with convincing force. Only the counter-influence of a childishly jealous profession can stand in the way of such recognition, thus temperately urged; the very moderation of the letter, and the frank avowal that the promotion of pharmaceutical efficiency is one of the foremost of its objects, should ensure for it a sympathetic reception, for it is not in this way that false claims are made.

### Your Leader on "Apothecaries' Assistants"

leaves nothing to be said; it is final and unanswerable. If the Council allows itself to be driven into admitting these men to registration without exacting from them a qualification equivalent to ours it will be false to its trust, and the Pharmacy Act itself will be made a laughing stock. If, as your correspondent "Fair Play" suggests, the apothecaries were compelled—not merely asked—to raise their Assistants' examination to the standard of our Minor there might be a case for admitting them to registration, but otherwise it cannot be done without, as you say, permanently lowering our own standard, which would truly be "deplorable." And, I ask again, What about the drug-store men?

### The Defence of the Council

undertaken by the President, though accorded, as is customary in such cases, a "hearty vote of thanks" by the North Londoners, amounted to very little. He is not reported to have said anything about the 2,000% loan; he confessed that little had been done towards improving the position of pharmacists in the Army; he explained the already-explained-by-laws, but said nothing of the forthcoming one which Mr. Shortt confidently expects to admit apothecaries' assistants to registration as pharmacists without examination; he referred to a few non-controversial matters, advocated a few changes in organisation, told us to hasten slowly, and assured us—I must say with amazing effrontery after what has recently transpired—that the Council believes in thoroughly debating its differences; and that is all. In short, on such points as really require defence he either said nothing or said what is not in accordance with the facts. It does not follow that the present Council is not, as he declares it to be, one of the very best he has known, and if that is all he was concerned to show he may have succeeded, but it amounts to no more than this—that the Council sets us an example of hastening very slowly indeed on the path of improvement.

### The Increase of Dispensing Charges,

which I have frequently urged as necessary, is strongly advocated by Mr. Humphrey in this month's "Script." He points out (1) that this is virtually the only industry which has not advanced its price to meet the increased cost of living, and (2) that the terms of Insurance dispensing are largely affected by our charges for private dispensing, which is a fact of the utmost importance just now. Mr. Humphrey would have us double our present charges, but this is going much too far. Accepting, as he appears to do, the cost of ingredients as the first factor to be considered, it cannot be maintained that this is double what it was when the war started, nor is it true either that establishment charges, or even our living expenses, are double what they then were, for rents are virtually unaltered. Apart from such considerations, however, an advance of 100 per cent. is not feasible; a 50 per cent.

advance we ought to have, and this is within the bounds of possibility. I hold, too, that Mr. Humphrey makes a mistake in basing his charges on the cost of ingredients. This is a cumbrous, variable, and commercial proceeding. Except in special cases, where the cost is abnormal, cost ought to be ignored, and our charges made to depend on the number of doses and our claim to consideration as professional men. A much greater approach to uniformity would thus be secured, infinite trouble would be saved, and principle would be vindicated.

### The Debate on Organisation

by the North Staffordshire Association showed a healthy dissatisfaction with the official scheme. Such a travesty of territorial representation as these large areas offer is seen to be absurd when locally examined. I need not repeat my argument against it, but simply record its rejection by men who know something of local conditions and how they vary even in comparatively small areas.

### Mr. Murray's Explanation

of what he said about proprietary names does not materially alter my opinion. What he advocates may be ideally desirable—personally I think it is—and it might possibly be less inimical to manufacturers than they suppose, but they would nevertheless resist it strenuously, and public opinion would be largely on their side. We have only to recall the persistence with which in the past proprietors have fought for the exclusive right to the use of names of their own invention, and less reasonably to the use of some they may be said to have filched from the common stock of English, for evidence of the uselessness of arguing with them in this matter, or of supposing that legislation restricting their claim is feasible.

### The Sale of Methylated Spirit

in small quantities is not yet a legal offence, nor is it in itself a moral one. That the stuff is frequently misused may be true, but it has many legitimate uses, and the recent increase in an old abuse of it is no reason why we should be charged with a guilty connivance every time an instance occurs. This, however, seems to be the judicial (?) habit. Magistrates are no more exempt than the rest of us from the tendency to make somebody responsible for every unpleasant occurrence, and who so ready to their hand as the poor chemist? The futility of questioning customers bent on mischief is sufficiently obvious to the non-magisterial mind, which is also no doubt closed to the fact that methylated spirit is as a rule very much more of a nuisance than a source of profit to those of us who keep it, and is only sold as a convenience to customers. That we should be told that we ought to be ashamed of ourselves when one of them misuses it is as great a misuse of a magistrate's position, which gives a factitious importance to his silliest utterances.

### Olibanum,

for which new uses are now proposed, has lost much of its old use in medicine, being now employed only in plasters and fumigations, whereas it was highly esteemed in olden times as an internal remedy. A late eighteenth-century writer says "it is commended in various diseases of the Head and Breast, in Fluxes of the Belly and Uterus, Coughs, Spitting of Blood, and Diarrhoea and Dysentery," and as "a Specifick against Pleurisy, especially when it is Chronic." The dose was a scruple to two drachms, though Rennie says a scruple to one drachm in gleet and leucorrhoea. Culpeper has the somewhat quaint remark that it is "extream bad for mad people." Officially, however, its use was even then mainly confined to plasters. A distinction was made between thus and olibanum, the latter being called *Thus masculum*, or male frankincense.

MORPHINE TRAFFIC IN CHINA.—The Tokyo correspondent of the "Daily Express" telegraphs that the Japanese Cabinet has decided to take drastic steps immediately to eradicate the illicit trade in morphine conducted in China by illicit dealers.



## THE SANITAS CO. LIMITED

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page 6.

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## Editorial Articles.

### The Indian Government as Traders.

In our issue of September 21, 1918 (p. 43), we described the methods of the Indian Government in undertaking the manufacture of quinine tablets by convict labour in a Rangoon gaol, and distributing them free in some instances where malaria was most prevalent, or selling them at low prices to indigent villagers. We questioned whether this was a desirable or economical procedure, and whether these tablets could not be manufactured at cheaper rates by skilled labour in England, rather than in a gaol where such labour was not always available, and where, considering that gaol officials are Government servants, who retire on pensions if they live long enough, the real cost of making these tablets had never perhaps been properly estimated. We see now that a critic has arisen in India itself in the person of Dr. Bentley, Sanitary Commissioner of Bengal. That officer looks upon the present system of selling quinine through licensed vendors as a waste of public money, urgently required for the establishment of an efficient system of sanitation in Bengal and other Indian provinces. He says that when he was writing his report, the lowest wholesale market price of quinine was Rs. 26 as. 8 per pound, whereas it was supplied by Government at Rs. 18 per pound. If to this be added the cost of manufacturing and packing the tablets, the difference between Government and wholesale prices works out at more than Rs. 10 per pound. On the amount of quinine sold, the bonus presented by Government during 1917 was well in excess of a lakh of rupees. If this benefit accrued to the poor there might be a good deal to be urged in favour of the system. But inquiry has shown that it is not so. The small purchaser pays at a largely enhanced price when he buys single tablets for his requirements. Those who gain are either middlemen or purchasers who could well afford to pay market rates. It is also disappointing to learn that the quantity of quinine sold through post offices and licensed vendors does not as yet amount on the average to two grains per head of the population per annum; while, in the opinion of Dr. Bentley, the amount spent on fever specifics and medicines for the cure or prevention of malarial fever, "most of which owe any value they possess to the quinine they contain," exceeds that spent on Government quinine a hundred times over. Still more deplorable is the fact that some of the advertisers of these nostrums are at pains to decry the merits of quinine, and in the absence of any agency capable of combating the harm they do, a prejudice is naturally raised amongst the more ignorant villagers against the most effective fever prophylactic known. A publicity campaign conducted on intelligent lines would do most valuable work in popularising the use of quinine, both as a remedy and a protection. The British system of absolute non-interference with the sale of proprietary remedies and food, or the advertisements regarding them in the public Press, is not perhaps, writes Dr. Bentley, absolutely the best that could be devised for a continent mostly inhabited by



a credulous and superstitious population. The Americans have not followed on these lines in the Philippines. There all remedies and notices concerning them are examined by a Government department, and if there are any mis-statements or exaggerations in the descriptions, they are not allowed to be advertised in any newspaper. Under such a system at least three-fourths of the advertisements of remedies appearing in the Indian Press would be condemned.

### Medical Research Committee.

THE Ministry of Health Bill which is before Parliament is ostensibly designed to consolidate and combine under one authority all those functions which relate to health matters. What many members of Parliament cannot understand is why the Medical Research Committee, which forms part of the National Health Insurance Commission, and is paid for by insured persons, should be handed over to the Privy Council instead of the Ministry of Health. The demand for information has become so insistent that Dr. Addison has issued an *apologia* for this procedure in the form of a memorandum, which he states was prepared in March 1918. In this Dr. Addison points out that there are both practical and scientific reasons for making the Medical Research Committee an independent body. The problem of the reorganisation of medical-research work extends beyond the Committee itself. The Local Government Board, the Board of Control, the Ministry of Munitions, the Colonial Office, and the Departments concerned with national defence are all at the present moment spending money on medical research, some of them using the Medical Research Committee as an agent for placing particular pieces of research in the best hands, and others of them acting independently, and the question of the prevention of overlapping has to be considered. Hitherto the position has been that the Medical Research Fund Regulations laid upon the Medical Research Committee the duty of framing schemes for research. These schemes are submitted for approval to the Chairman of the National Health Insurance Joint Committee as the responsible Minister in person. So soon as the Minister approves the Committee is left free to carry the scheme into operation, and the Secretary to the Committee is responsible for seeing that the approved expenditure is not exceeded. Although, therefore, nominally under the control of the Health Insurance Minister, the Minister really relies on the Committee to select the objects on which they will spend their income. Thus an important distinction is drawn between this research work and all other work within the sphere of the Department, and the Medical Research Committee has, in fact, been allowed "the most complete freedom within their constitution to bring flexible and rapid assistance to the national need on occasions of emergency, with the least possible delay in the motion of constitutional machinery." Moreover, during the six years of their existence the Insurance Departments have been so absorbed in putting the Acts into operation and in improving their administration that they have had very little time to devote to health problems in the more scientific sense. To meet the obvious argument that when a Ministry of Health is established the Medical Research Committee should be closely linked with the new Ministry, Dr. Addison goes on to suggest the probability that a future Minister of Health, with strong personal views on specific points in medical science, would be tempted to subordinate the Medical Research Committee to his particular policy. It is imperative that such a situation should not be allowed to arise, for freedom is the first essential in scientific research. Thus the object should be to refrain from putting scientific bodies in any way under the direct control of Ministers responsible for the administration of health matters. Moreover, if the Medical Research Committee were specially attached to the Health Department it would be too much absorbed in making researches into those problems "that appeared at the moment to be of the most pressing

practical importance." On the face of it that seems to be what the Medical Research Committee was established for, but Dr. Addison and his medical friends have other ideas. Apparently the Committee is to be a kind of consultative body for the use of the medical staffs of the other Departments. As thus:

But while it is essential that the administrative Departments should let the scientific body know what are the practical problems of the day calling urgently for inquiry, the scientific body should not be limited to dealing with the practical aspects of the problem.

That is to say, this body of super-research scientists should not be pruned down to work of practical value, for "in many cases an inquiry started with purely practical purposes has led scientific men into new inquiries, resulting in fresh discoveries which have been valuable for purposes quite distinct from the solution of the original problem." Dr. Addison says that this freedom to pursue scientific inquiries in any direction is implied in the words of the National Insurance Act 1911, referring to medical research, and another strong argument against associating the Committee with a single strong administrative Department is that this course would undermine the confidence at present felt in the Committee by the large number of Departments which from time to time have made demands on the Committee's services.

So much for the *practical* reasons for reorganisation. As for the *scientific* these are set out in an appendix by Sir Walter M. Fletcher, secretary to the Medical Research Committee, who elaborates the idea that "practical fruits of inquiry commonly spring from work undertaken with quite other objects and view." Thus Pasteur's work on chemistry and crystallography led to his discovery of fermenting microbes, and ultimately to Lister's discovery of the meaning of hospital gangrene, while Röntgen's purely physical work gave surgery and medicine the benefits of x-ray photography. Coming to more recent experience, Sir Walter recalled the steps leading from the first administration of oxygen to soldiers suffering from the effects of poison gases, and the freight difficulties in supplying the compressed oxygen in heavy steel cylinders, to the ultimate transportation of liquid oxygen by the Germans in receptacles like a "Thermos flask," which was invented and, like liquid oxygen, first made (but not patented) by Sir James Dewar." He also mentions the researches of Dr. Dakin in the early months of the war on chlorine compounds as antiseptics, which led to the introduction of chloramine-T. and dichloramine-T. By a side inquiry halazone was discovered, and further study of chloramine-T. and its action on protein substances has made it valuable in pure biochemical work remote altogether from the problems of antiseptics. Sir Walter also instances the discovery of equivalent substitutes for tetrachlorethane as an aeroplane "dope," that produced a fatal form of jaundice, and the various forms of toxic jaundice arising in the manufacture of T.N.T., which were ultimately effectively combated. The toxic jaundice study in turn led to an investigation of cases of poisoning after the administration of salvarsan, and the biological testing of all salvarsan and allied products sold in this country. An unexpected by-product of the detailed study of T.N.T. poisoning was the discovery that a slightly abnormal form of T.N.T. had chemical properties which could be used for the further analysis of the actual chemical structure of the protein molecule. This has given a new instrument for biochemical work, and "Carnosin," previously recognised as arising in the human body, has not only had its exact chemical structure revealed, but it has been already artificially synthesised for the first time in the chemical laboratory. In view of these points Dr. Addison's contention is, therefore, that the Medical Research Committee should follow the precedent of the Advisory Council for Scientific and Industrial Research, and be brought into an analogous relation to a Committee of the Privy Council under the Lord President, who is to be the Minister responsible to Parliament for the expenditure of the money involved. This would give complete concentration of the activities proper to a central medical research body acting for the United Kingdom as a whole, a wider concentration



and exchange of knowledge—the Privy Council being the only Department with an Imperial range—freedom from undue pressure from any particular Department, and direct advantage from the close association of the two research bodies. Already these two bodies have common interests, as shown in the scientific development of synthetic dyes, which, in addition to their industrial value, provide bacteriological stains and valuable medicinal antiseptics.

### German Dyes and Potash.

An agreement is being drawn up by the Allies under which Germany will be allowed to import certain food products—fats and cereals. Payment is to be made in wood, potash, dyes, and other products. The list is being arranged so that the exports from Germany shall not exercise a deleterious effect upon any of the industries established in Allied countries. We suggest that if dyes and medicinal chemicals are included in the list, all brand-names and names of German manufacturers should be eliminated from the packages before these leave Germany, so that the goods shall not act as an advertisement for the poison-gas factories. It is stated that potash is to be the chief export permitted, but we hope that the newly established potash industry in this country will receive consideration. According to one account the negotiations between the Entente and the German delegates for the delivery of dyes and potash have temporarily collapsed, as the Entente demanded that the negotiations should only be carried on for the supply of dyes from factories in unoccupied territory, while as regards potash an agreement is stated to have been reached with Great Britain for the delivery of a small quantity only. It is said that the United States did not participate in the negotiations for potash. That country is looking to the Alsace deposits for supplies, and already a Potash Mission is in Alsace making a special study of the situation with a view of informing the American Government and industry what may be expected in the way of imports. A great deal of optimism prevails in America as to what they will be able to obtain from Alsace, but it may be twelve months or more before exportation can take place, as French agriculturists must have first claim on French potash. Meanwhile the position in the United States is peculiar, and some conflicting statements have been circulated regarding the industry. Writing in an official bulletin of the U.S. Geological Survey, Mr. H. S. Gale states that the present is a critical time for the industry in America, as it is unexpectedly disclosed that there is little or no market for potash, either at the high prices that have prevailed or even at a considerably lower price, and no satisfactory explanation of this situation seems to be offered. Mr. Gale states that:

Prior to the war the United States used more than 1,000,000 tons of potash salts each year, and it has been supposed that the cutting off of a large part of this supply was a keen deprivation, particularly to the farmer. This foreign supply has not been available during the war, and with much energy and enthusiasm a domestic production equivalent to about one-fourth the former importation has been built up. Approximately 100,000 tons of potash salts, produced in Nebraska in 1918, are reported as lying in storage warehouses, distributed throughout the South-Eastern States, which is the region where potash is principally consumed. This is of the same quality that was used in 1917, and is immediately available to the fertiliser manufacturer or the farmer. Potash of other sorts from various sources is also reported unsold, though in smaller quantities. As this surplus represents approximately half the relatively small domestic production and as potash from foreign sources has not been available during the year, it is difficult to explain this apparent lack of interest in the present small domestic supply. Foreign potash cannot be delivered in time to be used for the next season's crops, so that if the present stocks of domestic potash are not sold very soon fertilisers for the spring season will again be made in a form deficient in this essential constituent.

As is well known, America formerly depended on German potash salts; but the U.S. now wants protection for its infant industry, as in the State of Nebraska alone there is \$15,000,000 invested in the business. With the intention,

therefore, of safeguarding the industry a Bill is now before the Senate to control the imports of potash by licence until trade conditions have been readjusted. It is proposed that the licensing period should be extended to five years, after which time it is believed that American-produced potash will be able to compete with German potash. Evidence was presented to the Committee that has charge of the Bill that Germany has stored up a considerable quantity of potash ready to throw into the American market when peace comes, and an affidavit was presented to the Committee to the effect that a representative of the German Potash Syndicate had threatened the potash producers in Nebraska with trade extermination at the conclusion of the war. During the next twelve months there are likely to be some interesting developments in the potash situation on both sides of the Atlantic, and it is to be hoped that the means adopted will be effective in obtaining cheap supplies, and at the same time enabling the British production of potash to continue its progress.

### The Profession of Chemistry.

DR. M. O. FORSTER, in "Nature," refers approvingly to an article in that journal upon which we commented recently (*C. & D.*, March 8, p. 63), and complains that the man in the street regards a chemist as identical with a pharmacist, who is "principally occupied in dispensing medicine and in the sale of toilet requisites." Then, after an insinuation that the pharmacist has very little to do with chemistry, Dr. Forster writes:

The only remedy for the present situation is courteously to approach the Pharmaceutical Society and endeavour to establish a friendly arrangement, in conformity with which the members of that body, who are now variously denominated "chemist," "pharmacist," and "druggist," would content themselves with two of these names, leaving the first word for the definition of persons engaged more obviously in the extension of chemical knowledge or the application of chemical principles. Pharmacy is an honourable occupation, and I cannot believe that the pharmacist would lose dignity or status by the change. Comparatively few pharmacists are chemists in the modern sense, and it is well known that in other great countries this confusion of titles does not prevail; in fact, this is one of the few points on which we are at variance with our Allies, whilst they are in complete harmony with the Hun.

It would be more useful if Dr. Forster would endeavour to answer the question "What is a chemist?" and make suggestions as to which kind of chemist he wishes the name "chemist" to be restricted to. Apparently the real objection is that the word "chemist" is used by persons who keep a shop, notwithstanding the fact that they were the first users of the title. It is as well to remind the professional chemists that Lieut.-Colonel E. F. Harrison, who was so highly spoken of by the President of the Institute of Chemistry (*C. & D.*, March 8, p. 67), was primarily a pharmaceutical chemist, and that it was his early training in pharmacy that enabled him to cope so successfully with the problem of devising the protective respirator for our soldiers against German poison-gas. Chemists and druggists have been pioneers in many branches of applied chemistry. The new generation of professional chemists knows nothing of this, but only clings to the snobbish idea that shop-keeping is incompatible with dignity.

**WHITLEY COUNCILS.**—The road transport industry and the asbestos manufacturing industry have formed Joint Industrial Councils. There are now twenty-eight Whitley Councils in existence.

**HOW TO BE HAPPY THOUGH ALIVE.**—Several of the daily papers recently contained the following story concerning the arrest of a certain Bolshevik:

"He had with him a small chemical box containing a most varied assortment of poison antidotes. After partaking of any kind of food or drink he almost always took a poison antidote, as he was in continual fear of being poisoned."

It is enough to make the ghost of Mithridates the Great turn green—or whatever colour ghosts turn—with envy.



## Dentists Act Committee.

### IV.

THE following are further extracts from the Report of the Dentists Act Committee, dealing with the control of the dental profession and dental research:

#### CONTROL OF THE DENTAL PROFESSION.

This section begins with a *résumé* of the conditions now in force, and mentions various recommendations made by different witnesses. The Report then proceeds:

We have found it difficult to reconcile the different views that have been placed before us and to frame the constitution of a satisfactory body for the control of the dental profession. In this connection we have strongly in mind the probable constitution of the Dentists Register after an Act prohibiting unregistered dental practice. *We are not in the present circumstances in favour of immediately severing the control of the dental profession from the General Medical Council. We recommend that the control of the dental profession shall be kept within the orbit of the General Medical Council for the present, but that as much self-government of the profession by dentists should be effected as is practicable, and we are of opinion that the public should be represented on the controlling body by laymen.*

With a view to securing control in the above sense we suggest that:

The control of the dental profession and the custody of the Register should be entrusted to a Statutory Board under the General Medical Council, of which the General Medical Council should appoint three of its own members, the registered dentists should elect five (three for England and Wales, one for Scotland, and one for Ireland), and three should be appointed by his Majesty in Council, of whom two should be persons not upon the Medical or Dentists Register.

Any person aggrieved by a decision of the Board to remove his name from the Register should be entitled to apply to the General Medical Council for leave to appeal, and, if leave is granted, the appeal should be heard by the General Medical Council.

The Dentists Board should be empowered to frame rules regulating its own proceedings, but the rules so framed should be valid only if approved by the General Medical Council.

In recommending the formation of a Statutory Board under the General Medical Council we have not been unmindful of the fact, which we have referred to in a preceding paragraph, that in the present constitution of the General Medical Council there is no provision for the appointment to the Council of members representative of the dental profession.

The constitution of the General Medical Council is not within the terms of our reference, but we have assumed that after the resolution passed by the General Medical Council which is referred to in paragraph 167, early steps will be taken to secure that representatives of the dental profession shall sit on the General Medical Council. Such a course would be in harmony with our recommendations, and it would seem natural under these circumstances that the six dental members of the Board should be made members of the Council.

We have considered very carefully whether it is desirable that licentiates in dental surgery and practitioners who have been or will be admitted to the Register by virtue of being in practice should be separately represented on the Dental Board. We are strongly of opinion that after any Act prohibiting dental practice by unregistered persons has been passed, it is very desirable that the dental profession should not be regarded as sectional but as a whole. In view, however, of the representations that have been made to us by both the British Dental Association and the Incorporated Dental Society, we think that one, but not more than one, of the elected dentists for England and Wales should be a registered dentist, whose admission to the Register was in virtue of being in practice at the date of this Report. The remaining dentists elected for England and Wales and the dentists elected for Scotland and Ireland should be Licentiates in Dental Surgery. We also recommend that if and as long as registered dentists admitted to the Dentists Register by virtue of being in practice comprise a majority of registered dentists, one of the Crown nominees should be selected from their number to represent them.

We regard the Dental Board we have suggested as giving place in time to a Council or Board independent of the General Medical Council, and consisting of (1) dentists elected by the profession, (2) dentists appointed by the

dental licensing bodies, and (3) nominees of the Crown on the advice of a responsible Minister. The latter should include laymen.

We think that on a petition from registered dentists, of such a character as appears representative of the dental profession, it should be made lawful to establish such a Board or Council by Order in Council.

A notice of the Order—stating that the draft may be inspected by persons directly interested—should be published in the "London Gazette," and the Privy Council should consider any representations which may be made during a specified period.

The draft might then be laid before both Houses of Parliament, and if within a given time no address hostile thereto were adopted in either House the draft Order might be submitted to the King in Council.

#### DENTAL RESEARCH.

The importance of dental research has been brought before us on several occasions. We have already expressed our approval of the proposals of the British Dental Association and the Incorporated Dental Society that registered dentists should pay an annual licence, a proportion of the proceeds of which should be devoted to advancing dental research and the education of the dental profession. Mr. Norman Bennett in making the suggestion to us stated as follows:

"A comparatively small amount of money spent in research work might result in discoveries in connection with dental pathology of such importance that the amount of clinical and operative work remaining to be done would be very much reduced. I regard this matter of an annual tax on the profession, to be devoted to education and research, as one of the most important parts of the whole problem."

Dr. Robertson also attached great importance to research work, and favoured a comprehensive inquiry on the causes of dental caries and the effect on health. He stated:

"I have thought a great deal about the question of dental caries: as to our knowledge of the origin and causation of it, and how much we want yet to learn as to the causes of dental caries—because at the present time there are many differences of opinion as to the influences producing it; and I cannot help thinking that evidence is available if one takes a wide enough purview of the subject, and that some Departmental Committee or Research Committee needs to be appointed to investigate the subject from a very large point of view. As a matter of fact, I am a member of a small Committee appointed by the Society of Medical Officers of Health to suggest subjects to the National Research Committee, and this was one subject that we had in view immediately after the war passed. They are engaged largely in war work just now, but as soon as the war is over we are going to ask that the National Insurance Research Committee shall make an investigation into dental caries of a sufficiently wide character. It means large areas in this country and very exact observation, and areas abroad as well, in different countries, under different feeding conditions."

Dr. Wheatley expressed the opinion that whatever investigation and research may be necessary for ascertaining the causes of dental disease should be immediately made the business of the Government.

We are very strongly of opinion that a thorough investigation into the causes and effects of dental caries and other diseases of dental origin is long overdue. It is obvious that any research which resulted in dental caries being prevented either wholly or in part would relieve humanity of an immense amount of pain and subsequent ill-health. The investigation should be conducted by the Medical Research Committee, who recognise the work as part of their functions and included it in their first programme of work. They have made some progress with it already, in spite of war difficulties, and we are confident that they are fully alive to the importance of the question.

Side by side with researches on the medical aspect of the problem should go research as to all that pertains to the technique of the profession. We suggest that the Dental Board, strengthened possibly by some *ad hoc* representatives added for research purposes only, should conduct researches of this nature.

**THE MASK OF BEAUTY.**—Speaking in London recently, Sir Frank Baines said that the carelessness of girl munition-workers in shell-filling factories was extraordinary; he had found them wearing their T.N.T. masks on their chins—because the masks caused a certain redness of the lips.

**ALCOHOL FOR MEDICINE.**—"The first claim at least upon any stocks of spirits should be for their use as a medicine in accordance with a prescription of a duly qualified medical practitioner, specifying the amount that he prescribes and the period for which it is to be taken."—Dr. C. F. Harford, Secretary of the Church of England Temperance Society.



## Associations' Winter Session.

**Bradford.**—Mr. Hugo Wolff, on March 13, addressed the Bradford Pharmacists' Association on *Successful Salesmanship*, Mr. W. Sutcliffe presiding. Mr. Wolff's remarks were based on what he called the fundamental principles of successful retailing. He pointed out that retail salesmanship is not merely selling goods to customers, but can be described as the business of bringing materials from the place where they are plentiful to places where they are scarce and needed; therefore retail salesmanship must include a thorough knowledge of what is wanted by the public. Modern business lives for the public, and not the public for the business, and, if we admit that, we must also admit that the most likely man to succeed is the one who, first of all, studies the needs of the district in which he proposes to open, or purchase, a pharmacy. He instanced the value of cultivating the friendship of the rate-collector, who can always tell one something about the average rental value of the property around and something of the nationality of the people in the district—the former a very important factor when it is borne in mind that, in the Provinces, about 14 per cent. of one's income is expended for shelter. Consequently it is easy to arrive at a fairly approximate figure representing the spending capacity of one's public. Successful retailing, he suggested, is merely adapting the business to the needs of the public. The more closely those needs are followed the greater will be the volume of trade. The policy of the business requires careful consideration, especially when it is remembered that 30 per cent. of business failures are due to inexperience. Mr. Wolff proceeded to deal with the various questions which arise with regard to the policy of conducting a business, and emphasised that the key-note of the whole policy should be the creation of goodwill. He dealt with the dumb salesmen—window- and counter-displays, &c.—and finished up with the salesmen who can talk—i.e., the assistants. He contended that, as whatever a pharmacist does in buying, advertising, and displaying goods, is with one aim in view—selling—it follows that selling is merely the realisation of anticipated results, and that the retail salesman is superior to all other means. Mr. Wolff dealt with several points, such as studying the customer and the various kinds of customers, making a sale, how to attract attention, arouse interest, create a desire for the goods, how to close a sale, how to introduce new goods, and, finally, how to secure goodwill before, after, and during the sale. The President said he agreed very greatly with Mr. Wolff's observations, especially one in regard to the remuneration of pharmacy as referred to in a leader in the "Pharmaceutical Journal." He thought the suggestion, in that leader, that pharmacy could not be regarded as a lucrative calling was very regrettable, even though it was probably intended to be in the sense that the craft should be put upon a higher professional level. The actual effect of the article upon the young men was not likely to encourage the best class of men to enter the craft. Mr. G. Penty said he had put into practice some of the ideas conveyed in Mr. Wolff's previous address, and had experienced great benefit.—Messrs. O. Hobson, A. B. Stocks, and R. A. Cross were elected new members.—It was decided to renew for this summer the scheme, inaugurated last year, of engaging a locum to act for chemists who desire a holiday but are short-staffed.

**Brighton.**—A meeting of the Brighton and Hove Association of Pharmacy was held on March 12, when Mr. A. W. Hockin, Ph.C., gave a very interesting account of his *Impressions of French Pharmacy*. The great sale of herbal concoctions, the huge consumption of cachets, the long hours of business, and the small trade done in sundries were amongst Mr. Hockin's chief points.—Mr. F. Weight (S. Maw, Son & Sons, Ltd.) then gave a paper on *Modern Business Methods*. He emphasised the fact that keen business methods pay chemists better than the ultra-development of the scientific side. He instanced two cases where chemists had taken up radiography and had become really expert. When a local doctor happened to instal a small outfit they lost all their connection. A series of window-shows was suggested by the author, based on "Everything for the Invalid," with utensils, Benger's Food, Brand's Essence, feeding-cups, wool, etc., on show. "Everything for the Toilet," and the like. Another idea of Mr. Weight's was to have printed little cards for insertion in parcels, giving a list of seasonal requirements in stock.—Messrs. Cupit, Barley, Blamey, Padwick, Edgar Jones, and Yates joined in the discussion.

**Edinburgh.**—A meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association was held at 36 York Place on March 12, Mr. H. W. Blair (Vice-

President) in the chair. Mr. J. Tait, Ph.C., gave a very interesting lecture on *Toxins, Serums, and Vaccines*. Starting from bacteria as the cause of infectious diseases, Mr. Tait described the parts played by micro-organisms generally, with special reference to the formation of toxins; the protective efforts of the body—the phenomenon of phagocytosis and the formation of antitoxins and other antibodies. The preparation of serums and vaccines was also explained and the history and principle of vaccination outlined. A discussion followed, and a vote of thanks was awarded to Mr. Tait.

**Halifax.**—The Halifax Chemists' Association held their annual dinner (the first since 1914) on March 13, the President (Mr. B. C. Hodgson) in the chair. Several visitors and delegates were present. An excellent programme of music was arranged by Mr. Gibson Dixon, the artistes, whose services were much appreciated, being Messrs. A. Hanson, A. P. Eccles, — Armitage, J. Bottomley, A. Oliver, and E. U. Foster. Mr. A. Haigh acted as accompanist. The loyal toast was musically honoured, Mr. Eccles singing a song, "The King," the words of which were written by Mr. H. Hebden, one of the members. Mr. P. W. Swire proposed "The Pharmaceutical Society," remarking that now they had every reason for speaking a good deal better of the Society than they could do in the past. Mr. N. N. Armitage (Leeds), responding, referred to three points in which the Society had justified its existence. The recruiting business had proved that the organisation in pharmacy had been complete, adequate, and efficient. In all the work connected with the Insurance Act they had the right men there and could trust them. During the four years of war 170,000% had been obtained from the Commissioners as extra payment for the pharmacists of the country. The last point dealt with the War Auxiliary Benevolent Fund, which was initiated in Leeds. Mr. A. Taylor, proposing "Kindred Local Associations," said the first public dinner he attended was in Leeds, when Mr. Michael Carteighe, then President of the Pharmaceutical Society, was present. Mr. H. Shackleton (Bradford) and Mr. W. Blakeley (Dewsbury) replied. Mr. J. Fletcher (Halifax Insurance Committee) proposed "The Halifax Chemists' Association," and spoke of the spirit of willingness which had been displayed in a very real manner during the early part of the war, when the chemists of Halifax allowed voluntarily to join the colours something like thirty-seven assistants, which number represented 40 per cent. of those available. This compared very favourably with the percentage of the whole of the country at that time, the average being 19 per cent. Alluding to the question of dispensing, he said the Insurance Committee were anxious to have a satisfied dispensing service. Mr. L. Chambers, in acknowledgment, expressed thanks to Mr. Fletcher for the help he had afforded them.

**Leeds.**—A meeting of the Leeds Chemists' Association, on March 12, Mr. N. N. Armitage (President) in the chair, was addressed by Mr. Herbert Skinner (member of the Pharmaceutical Council) on

### PHARMACY AS A BUSINESS PROPOSITION.

Mr. Skinner said that, though they have not always agreed with one another, he was convinced that both he and the Leeds Association are out for the same end—the benefit of pharmacy. At the moment he was concerned with general principles rather than particularisation. He had come across an advertisement of a multiple firm of chemists whom he would call "Octopus, Ltd.," and was greatly impressed not only with the manner in which they set forth the attractions and values of their goods, but the emphasis which they laid on the fact of possessing "perfect laboratory and scientific equipment." Last month, whilst visiting Nottingham, where he served his apprenticeship thirty-five years ago, he saw great changes amongst his old friends of the retail since his last visit ten years ago, and in the development of a multiple concern, who were persistently going into districts where, in the old days, it seemed impossible that a chemist could make a living. He had since received a letter from a friend, who had accepted a very good offer by "Octopus, Ltd.," for his business, because he knew the concern would open in opposition if he did not sell, and he would find life harder in his advancing years. Mr. Skinner said his hearers must bear in mind, all the time, the "perfect laboratory and scientific equipment." Private chemists have no such equipment; on the other hand, they have a number of men and women who, first and foremost, require what they call status. What is really needed by the chemists is a little more common horse-sense. The advent of the National Insurance Act, which sounded the tocsin for the separation of dispensing from prescribing, created a testing-time for the craft. The medical fraternity poured an immense amount of criticism upon



the chemists, and forced upon 'pharmacy the Departmental Committee, which, in turn, created the commercial tariff. The exigencies of war-time needs for public service overcame all objections to this tariff and its decimal payment, but he was sure the chemists lost many golden opportunities during the war which would never recur, by a lack of a greater altruistic view-point. They often said there is nothing more rotten in pharmacy than Insurance dispensing. Yet there are people who do very well in it, and they are the people who do enough of it to be able to employ somebody else to do that work whilst they attend to the ordinary business. The commercial tariff is not a business proposition. Pharmacy must have more imagination put into it: chemists must visualise the end in view and use their trained minds to analyse modern conditions. They must cultivate the will to seize opportunities and the ability to devise the ready method, and finally the moral courage to achieve those ends. Under present conditions pharmacists seem to be doing too well to attend to the future, but these conditions may be only temporary. In immense areas the prosperity of the industrial populations, and also the recurrent influenza epidemics, have produced enormous business both for doctors and chemists; in fact, they are now about "fed up" with doing so well. But the fact remained that all around are interests eating into pharmacy—the public clinics, municipal centres, continuously extending cottage hospitals, provident dispensaries, etc. The more the public become educated to meet the commoner diseases and ailments, the less they will rely upon advertised products. The co-operative stores and the multiple shops are increasingly poaching on pharmaceutical preserves. The probabilities are that the craft will have a harder struggle in times to come than ever before. Pharmacy, in the reconstruction pamphlets, is regarded as an educational calling, though the minimum salary offered to the qualified man is not very high. Who knows what the Ministry of Health will spell for the craft? He would submit four points for the members to take home and consider:

(1) Can we afford to regard the economic changes in the community in our usual apathetic manner?

(2) Can pharmacy stand square to all the winds, self-contained and self-sufficing, and still retain the means to live suitably under modern conditions?

(3) Can we present an unanswerable case for a minimum living dispensing-fee? If so, can we enforce it?

(4) Is the ordinary daily business of variety sales sufficient to warrant our expectation of survival as a craft?

The survival value of pharmacists, said Mr. Skinner, will be their fitness to survive; the public need the measure of their service. To meet this they must have certain conditions, and, first and foremost, despite the great changes in the matter of examinations and in other requirements, he placed the essentiality of shop experience. The next condition is the art of selling and buying—a subject which seems very popular in the North. Finally, there is the technical training, which is, after all, the ground-work of their reputation with the public. He questioned anyone in pharmacy doing without dispensing; the fact that he could dispense, whether he was called upon to do so or not, is of great value with the public. What are the prospects of a qualified man? He can open shops. That was not altogether a blessing with some of them, and the consequence is that there are a lot of uneconomic factors about. Though assistants are now getting wages which are big in comparison with what the present chemists used to get, yet the economic conditions are not as satisfactory as they should be. There are three distinct channels for the qualified man to make a living—the retail, the public service, and the wholesale. He brought in the wholesale because it is a big source of leakage to the chemist. The wholesale can take any Tom, Dick, or Harry into it. They are trained up to a certain standard, but many of them drift into the retail drug-store. These three factors have a certain amount of antagonism, but they have much in common, and it should be possible to combine them for a mutual purpose. Before combining them, however, one must consider a few of the things each section is looking for. The retailers think too much in labels; they talk about trade matters—whatever they may be—salesmanship, bookkeeping, stock-keeping, central buying depôts, and always call for a business council, and almost invariably vote no change. In the public service they demand recognition and all dispensing to be under the supervision of pharmacists. They demand the extension of the post-graduate examination, and would like the Pharmacy Acts applied to public institutions. The wholesale side demand acceptance of mutual service, and their technical workers demands recognition. At the British Pharmaceutical Conference in 1917 the President said: "Pharmacy does not possess adequate machinery to urge

its claim on the Government. . . . The different sections urge their claims independently." In 1913 the President had said: "A public council was needed, on which every side should receive proportionate representation." In the previous month Mr. Woolley, the Editor of THE CHEMIST AND DRUGGIST, at Leeds, had urged combination for research and education to meet the coming competition. He (Mr. Skinner) took it, of course, that Mr. Woolley referred in the general sense of pharmaceutical products. It is clear that there is a general desire that something more should be done to make pharmacy—and he included the entire drug-trade in this matter—a real paying proposition. Mr. Glyn-Jones said at North London that the one thing needed is unity. Dr. Addison expressed a desire to see a combination of the professions which treat with the public health. The acid test of all these things is the economic one. Are the means to live sufficient? They must consider the position of those who are coming into the trade—and they all knew the present great influx of students. Are the profits and the wages sufficient, the working conditions and the hours satisfactory? Is the craft strong enough to stand firm for the shorter hours when compulsion is withdrawn, even if the small uneconomic shops begin to break away? All these things have to be taken in conjunction with the competing factors named. An immense amount of retail trade is being done through the wholesale and even by doctors. The nursing homes are another source of leakage. Finally, they must harmonise State and municipal service with the personal service. The growth of municipal enterprise and the survival of the individual is one of the greatest problems of the future. In the retail the craft have got the "perfect laboratory and scientific equipment." They have it in the wholesale—more or less—some of it is not very perfect, but the equipment is there. The wholesale and the public services are practically divorced at present from the retail. The pharmacists have a craft; about them they have an immense industry which is big enough to swamp them. Is it not possible to combine all the interests of the drug-trade, each in its own section, but working towards a common end? He hoped that developments in regard to the proposed distributive trades boards would bring the whole drug-trade together into one board, so that the trade could become a closed craft, in its respective sections, which would unitedly combat clashing interests, either from the Government or from anybody else, and will rigidly exclude the parasites who at present live on the craft.

#### DISCUSSION.

The Chairman said the address had been fascinating. He disapproved of the sale of the private business to "Octopus, Ltd.," because pharmacists had always been against companies, and this looked like helping a company forward rather than improving the craft. He did not believe in condemning stores on the one hand and selling a business to them on the other. That is not principle. He would like to know what were the golden opportunities which Mr. Skinner said the craft had lost. He disagreed with the suggestion that the more people are educated, the less will be the sale of advertised goods; his experience was that if advertising is done properly the people will buy. He entirely agreed that the hardest times for the craft are to come, but the future entirely depends on the chemists themselves. They have gained much during the war, particularly in shorter hours, and must stand firm. He doubted whether he could go as far as Mr. Skinner in regard to trade combination. It was a fine ideal, but how could the craft unite with the wholesale trade when the latter are the parties who supply the parasites?—Mr. J. H. Beacock said value for money is a great factor in keeping the public. As to the perfect laboratory and equipment, the multiple company concerned sells a great many things which have nothing to do with the laboratory. As to the fear of the stores' competition, to have them as neighbours is not altogether a disadvantage, because they bring trade into the street with their great variety of sales, and many a thing, which they happen to be without, sends a customer to the neighbouring chemist, who then has the opportunity of retaining that customer. As to dispensing and prescribing, the time is not ripe for the chemist to be deprived of the right to prescribe simple remedies, and the suggested change would simply mean that anybody can prescribe except the chemist.—Mr. Mortimer said he had often wondered whether it would pay best to "cotton on" to the advertised goods or devote more attention to the pharmaceutical side. He assumed that the chemist is not expected to adopt the cutting tactics which some of the multiple firms could do out of their excess profits.—Mr. R. Milestone thought Mr. Skinner was too pessimistic as to the future; pharmacy is quite established, and the medical profession were never more friendly.—Mr. H. Gilleghan thought there was much worth copying in the



methods of "Octopus, Ltd.," and such concerns, particularly in display, which is one of the secrets of their success. Chemists do not appreciate properly the value of a varied stock, particularly in the popularly advertised goods. The proprietary article has been one of the greatest blessings the retailer ever had, and brings opportunities to secure innumerable new customers. The man who sold his business to "Octopus, Ltd.," did the right thing as an individual under the circumstances, though, possibly from the collective point of view, he helped the increase of stores. He would have to consider the proposed drug-trade combination a good deal more before accepting it; one must be chary about duplicating organisations.—Mr. M. E. Murray doubted whether Mr. Skinner understands the conditions of the North when he said all the shops did dispensing; before the National Insurance Act hardly 50 per cent. did it, and yet they were good businesses. Mr. Skinner was rather on two stools, wanting the professional side but to make a good living at the same time. Dispensing and every other professional pursuit are, after all, only trade in a particular form. If they could not make money by dispensing they make it out of something else.—Mr. A. Rothstein said the proposed trade combination touches an important social aspect; it aimed at making a closed body of a number of people performing a certain necessary service. In these days of falling empires and changing methods the community is apt to look rather critically at such proposals, though they were natural in days when private enterprise counted for more than it does to-day. The drug-trade, after all, has no particular birthright to this service; there are other influences besides their own desires. Mr. Skinner's remedy is, therefore, rather belated. They do not know how long it will be before they have to give up their position as small capitalists and become paid State servants.—Mr. J. Hayes failed to see possibility of realisation of the proposed combination. Surely they cannot combine highly trained chemists and people who sit at a table counting pills into boxes. They would have to take in grocers, drapers, and almost everybody, because all sorts of trades sell many of the chemists' goods. It is totally impracticable to take from chemists the right to prescribe for simple ailments. Trade matters are most important, because pharmacy is going to be swamped. He fancied the coming Ministry of Health will sound the death-knell of many pharmacies' dispensing. He looked to the pharmacy of the future not so much as a place for dispensing as a place to supply what the public want. The public don't care twopence for the qualification if they can get the goods.—Mr. W. D. Pollitt moved a vote of thanks to Mr. Skinner, and agreed as to the foolishness of asking for any more for dispensing. Dispensing had been a paying proposition if only indirectly. As to the proposed combination, he did not suppose Mr. Skinner intends the manual employees to be included.—Mr. J. Lancaster, in support, said Mr. Skinner had taken a wide subject, but things move rapidly nowadays, and it is up to the chemists to do their best.—Mr. Skinner replied to the various points raised.

**Liverpool.**—At a recent meeting of the Liverpool Chemists' Association, the President (Mr. David H. Evans) in the chair, Mr. Lindsay W. Rider, an American pharmacist, spoke on *Pharmacists in the United States Navy*. In the course of his remarks he said that the profession of pharmacy has much more attraction for the ladies of the United States than for those of this country. American drug-stores had constituted the example for the multiple shops associated with pharmacy in Britain.

**London (S.E.).**—A sub-district meeting of the Dulwich and Peckham members of the South-East London Chemists' Association was held on March 17, Mr. H. S. Foster presiding. It was agreed to charge face-value for patent medicines, and a deputation was set up to call on all the Peckham chemists to endeavour to get them to agree to this proposal. Resolutions were carried with regard to Kernak and Ven-Yusa shampoo-powders, and it was agreed to sell all tabloids (excepting aspirin and cascara) at retail prices, showing a profit of 50 per cent. on Burroughs Wellcome & Co.'s net cost prices.

**Newcastle-upon-Tyne.**—A meeting of the Newcastle-upon-Tyne Pharmacists' Association was held on March 12, when Mr. R. McClumpha, Ph.C., read a paper on *The Pharmacist in the Making*. Mr. McClumpha advanced the plea that employers should become models as regards the manner in which their apprentices were trained. He asked for a smart, business, as well as an efficient, professional training, for he was of the opinion that a pharmacist was correctly classified as a professional tradesman. Pharmacy requires to be taught and studied. In a retrospect of conditions of training he asked the employers if, to-day, they

would be content with the same conditions for their apprentices as they themselves had. He sketched, with interesting detail, the career of a young man through a monotonous apprenticeship until the Minor took him by surprise, when he was in danger of finding himself unqualified, or even outside the ranks of pharmacy, after wasting the most precious years of his life. He contrasted the life of an apprentice whose employer bought all his goods packed with that of a youth who saw and handled the preparation from the raw material to the finished product, indicating the opportunities for acquiring knowledge in the various stages and for gaining an interest in the business. In that way the young man would become an adornment to pharmacy. An extract was read from an article in which a teacher of pharmacy deplored the lack of knowledge shown by some students who confessed never to have made a pill or seen a suppository. The speaker would like every pharmacy to possess reagents, burette, etc. No employer should engage an apprentice who had not passed the Preliminary examination. Classes for professional tuition should be formed. Why not a botanic garden and a college of pharmacy in Newcastle? It might be the means of educating the public to the fact that pharmacists are skilled men. He would like to see a standard set up for treatment of apprentices so that all should have a fair chance of success.

**Peterborough.**—The fifteenth annual meeting of the Peterborough Chemists' Association was held at the Fitzwilliam Assembly Rooms on March 13, Mr. F. W. Cannon in the chair. A membership of fifty-two was reported, and the following officers were elected for 1919: *President*, Mr. Frank Sturton; *Vice-Presidents*, Messrs. C. Barnett, T. J. Calcutt, and J. W. Hall; *Hon. Secretary and Treasurer*, Mr. J. W. Bodger; *Committee*, Messrs. C. Bayley, F. Calder, W. R. Girling, J. S. Prior, F. W. Cullington, H. S. Turner, H. E. Noble, and C. Hanson.—The annual dinner followed. Mr. W. H. Sturton gave the toast of "The Houses of Parliament," and coupled with the toast their old friend Sir Richard Winfrey. As many of them knew, he passed through Bloomsbury Square, and his early career was devoted to pharmacy. Sir R. Winfrey regretted he was the only representative there from Parliament, as he quite expected they would have had the company of Mr. Woolcock, and that he would have been the "great gun" of the evening. (Laughter.) Mr. Woolcock, however, seemed to be taking his Parliamentary duties very seriously at the present time. When he had been in the House of Commons for thirteen years he would probably find time to go to a dinner. (Laughter.) It was a very excellent idea to find that, whilst Mr. Glyn-Jones, who used to be in Parliament, had become the Secretary of the Pharmaceutical Society, Mr. Woolcock, who used to be Secretary, had gone to Parliament. They had therefore got a direct representative who had been in close touch with the Society and its Insurance branch during the war. He was quite sure Mr. Woolcock would represent the pharmacists throughout the country with great ability, and he (Sir Richard) would back him up as best he could. Mr. Frank Sturton submitted "The Pharmaceutical Society," expressing regret that no one was present from the Council to answer any criticisms which they might have to offer. Mr. T. J. Calcutt was called on to respond, and said the Society and the Council were trying their best to further the status of chemists. Mr. J. S. Prior proposed "The City and Trade of Peterborough," and the Deputy-Mayor (Mr. I. Whitsed) replied. Mr. Charles Smalley gave "The Peterborough Association of Pharmacists," and said they had to thank the Peterborough Association for the birth of a federation in the Eastern Counties. Mr. J. W. Bodger responded, and said, with regard to the status of pharmacists, they had seen what immense benefits had been derived during the war by unity of effort, and it behoved pharmacists to band themselves together as far as possible into one great federation, and bring radical changes not only in that district, but throughout the country. Mr. C. Bayley toasted "The Visitors," to which Mr. R. Purdie replied. A capital selection of music was given during the evening, and a collection on behalf of the Benevolent Fund realised 27.

**Salford.**—A general meeting of the Salford Pharmaceutical Association was held on March 13, the President (Mr. J. H. Harrop) in the chair. Mr. Pilkington Sargeant, member of the Pharmaceutical Council, spoke on the *Coming Conference of Local Associations*. He hoped time would not be wasted on minor matters, as this Conference is far more important than its predecessors. Speaking of the Checking Bureau, Mr. Sargeant enumerated its duties, and said that one of the points to be raised at the coming Conference is the remuneration for Insurance dispensing. He proceeded to indicate alternative methods of payment. The questions of rural areas, hours of business, and emergency fees should also be settled. He emphasised the



importance of the proposed Ministry of Health, and expressed the opinion that pharmacy is not an industry under the Whitley Report. There is no reason why the Pharmaceutical Council should not deal with any phase of a chemist's business, but to do so is not always expedient. Territorial representation was then treated, and the speaker went on to say that he would be glad to see the Preliminary examination raised to the standard of the Matriculation. An Assistants' examination would create a class of men who would be a perfect menace to pharmacists.

**Southend.**—A special meeting of the Southend-on-Sea Association of Pharmacists was held on March 5, the President (Mr. R. H. Shields) in the chair. The Hon. Secretary (Mr. Sidney F. Body) read a report of the Local Associations Executive, and amongst the resolutions carried were the following: The existing dispensing-fees for Insurance prescriptions are totally inadequate, and under pre-war costs of labour and living the remuneration was insufficient in 1914. The changes in method of calculation under the 1916 Tariff actually reduced remuneration. Panel chemists are only 15 per cent. better off under terms for 1919 than 1914; and a minimum demand for all dispensing-fees to be increased at least 50 per cent. be formulated. In the event of failure to negotiate an agreed minimum demand, a ballot of panel pharmacists should be taken for the purpose of deciding the question of a uniform discontinuance of service for 1920. A report from the Organisation Committee was next discussed, and also the approaching Ministry of Health. Mr. S. F. Body was appointed delegate to the forthcoming Conference of the L.A.E. At the conclusion of the business the meeting resolved itself into a most enjoyable social evening, in which members and friends took part.

**Stoke-on-Trent.**—Mr. Rowsell addressed a meeting of the North Staffs Chemists' Association, on March 13, on *The Proprietary Articles Trade Association and Face-value*. The Vice-President (Mr. Hankinson) was in the chair. Mr. Rowsell claimed that the P.A.T.A. was the most effective agency that had been devised up to the present for the maintenance of prices. Manufacturers had often tried to enforce their own price-protection schemes, but they were nearly always unsuccessful. He gave several instances. With regard to face-value, a short time ago a Committee on Face Value was formed. But it was pointed out that they were doing work that was already being done by the P.A.T.A. They held it more important to get a profit than face-value. At first they had put certain articles on the list at a rather low rate of profit in the hope of improving the profit later on. He gave instances of how that hope had been justified. He spoke of the minimum profit which the P.A.T.A. had endeavoured to obtain (20 per cent. for the retailer and 10 per cent. for the wholesaler), and showed how the Association had not neglected face-value. He urged the desirability of endeavouring to increase the membership and indicated the advantages of the Chemists' Defence Association. An interesting discussion followed.

**West Bromwich.**—At a meeting of the West Bromwich Pharmaceutical Association held on March 4, the President (Mr. C. H. White) in the chair. Mr. E. M. Forster, D.B.O.A., gave a paper on *Visual Optics*. After explaining the action of lenses on rays of light, the speaker showed how images were formed in the eye. He explained also the structure of the eye, anatomically showing how it differed from the normal in hypermetropia, myopia, and astigmatism, and how these defects are corrected by means of lenses. The changes in the eye due to advancing age were explained, and why it is necessary to wear spectacles of gradually increasing power for reading. A discussion followed.

**West Ham.**—The annual general meeting of the West Ham Association of Pharmacists was held on March 6, the President (Mr. C. A. Jones) in the chair. The following officers were elected for the ensuing year: *President*, Mr. Alex. Catto; *Vice-President*, Mr. E. M. Lloyd; *Hon. Secretary and Treasurer*, Mr. S. Clifford Jones. The report of the Organisation Committee of the Local Associations Executive was discussed, and resolutions were passed recommending that Essex County should be included in the Metropolitan area; that members of the Pharmaceutical Council should be on the same footing as other members of the Society for election to the L.A.E.; and that representatives of firms and corporate bodies be elected and not co-opted. It was agreed that a representative of non-proprietors should be on Pharmaceutical Committees in each area. Messrs. Catto and Potter were chosen to attend the meeting of the British Pharmaceutical Conference. Mr. Miller drew attention to the habit of charging less than the tariff rate for bottles, and it was agreed to observe the rates.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Birmingham.**—The Pharmaceutical Committee met on March 5, Mr. W. H. Whittock in the chair. The meeting was unanimously in favour of a continuance of the present Tariff system, and of a demand being submitted at the forthcoming Conference for an increase of 50 per cent. on dispensing fees. The Chairman gave a short *résumé* of the useful work performed by the Military Service Sub-Committee. The withdrawal by the General Medical Council of the temporary alterations in the British Pharmacopœia was discussed with regard to the effect on Insurance dispensing in the area.

**London.**—A meeting of the London Pharmaceutical Committee was held on March 11, Mr. G. B. Barnard (Chairman) presiding. The report of the Central Checking Bureau showed that, during the month of October, the margin of error in pricing was only 0.14 per cent. The Secretary (Mr. G. A. Tocher) reported, *inter alia*, on the promise of increased supplies of malt and oil; on a chemist's withdrawal from the panel; that during November 465,862 prescriptions had been dispensed at an average cost of 7.13d. per prescription; that complaint had again been made regarding the issue of single scripts from the Eastern district; and that dispensing facilities after 8 p.m. were the subject of letters from the Insurance Committee. The report was adopted. 'Early closing of chemists' shops' had been reported on by a special Sub-Committee, and the Secretary was instructed to write the Insurance Committee incorporating the chief points which, briefly, expressed the opinion that the Pharmaceutical Committee consider 8 p.m. a reasonable hour for the closing of chemists' shops, and that, if an inadequate service in a particular district be proved, it would be to the advantage of the insured persons if a conference were held between the local medical men, the chemists, and representatives of insured persons. A resolution from the Western Pharmacists' Association, in similar vein, was included in the letter. The 1920 Tariff Sub-Committee recommended that the present Tariff system be continued; that the fees be increased by at least 2d. per prescription; and that, in the event of a new system being agreed upon, a flat-rate of at least 6d. per prescription should be obtained for dispensing services with drugs at cost price. The report was adopted. Referring to the re-introduction of preparations deleted, in 1917, from the British Pharmacopœia, it was decided to communicate with the Insurance Committee urging that the War Emergency Formulary preparations be discontinued after April 30. With regard to the shortage in the supply of medicine-bottles, it was decided to ask the Local Associations Executive to endeavour to relieve the present position.

**Sheffield.**—A meeting of the Pharmaceutical Committee was held recently, Mr. A. H. Culyerhouse presiding. A panel chemist pointed out that proprietary articles had been objected to by the Insurance Committee. It was decided to report the matter to the Panel Committee. The Secretary was instructed to take steps necessary to facilitate the release from the Army of two dispensers. Resolutions were also passed in regard to War Emergency Formulary preparations, the non-delivery of drugs, etc., by the railway companies, and the purchase of a cylinder for oxygen. The Secretary was instructed to make the necessary payments for the checking of prescriptions.

#### SCOTLAND.

**Drug Accounts Committee.**—The following comparative statement, showing for the whole of Scotland, has been issued by Mr. A. B. Gilmour, superintendent of the Central Checking Bureau:

	No. of Forms Allowed	Total Value	Average Price per Form
		£ s. d.	d.
1915	2,220,219	90,182 10 3	9.74
1916	1,938,523	80,451 11 4½	9.96
1917	1,805,603	72,753 5 1½	9.67
1918	2,001,296	95,848 9 8½	11.49



## Trade Report.

42 Cannon Street, E.C. 4, March 20, 3 p.m.

ALTHOUGH there is no improvement in the volume of business done, there is a more general inquiry in certain directions, but orders continue small. Quite a number of products have now receded to levels which involve holders in heavy losses, but the fact that prices are falling does not induce business. The signing of the Peace Treaty is expected to bring with it a welcome reaction in prices, and as stocks in druggists' hands must be low, the reaction may be quickly felt; and with the removal of export restrictions business should improve all round. At the moment, however, labour unrest aggravates the situation at home, and the want of confidence created prevents buyers entering into commitments beyond immediate requirements. Fierce competition continues to prevail in aspirin and salicylates, and present prices cannot leave much profit to makers. Further reductions have been made in the benzoates, cream of tartar, chloral hydrate, guaiacol carbonate, methyl salicylate, milk-sugar, salol, and theobromine. Borax and boric acid have been reduced by 3*l.* and 8*l.* per ton respectively. Camphor, menthol, Japanese oil of mint, and star anise oil are devoid of speculative interest, and, if anything, the turn easier. American peppermint oil is still soaring, and true wintergreen is dearer. Canary and dill seeds are lower. New Norwegian cod-liver oil is offered subject to export permit. Balsam tolu is firm, and eucalyptus oil is in fair demand. Pepper and cloves are cheaper. Several trading restrictions have been removed this week, these including the suspension of the Bismuth Order, "free" trading in cocoa-butter, suspension of the Potash Order so far as regards kelp, relaxation of the Order dealing with seeds, oils, and fats, and the suspension of the Turpentine Control Order, fuller particulars in regard to which will be found elsewhere in this issue.

Higher	Easier	Lower
Cocoa-butter Peppermint oil (Amer. and H.G.H.) Wintergreen oil (true)	Albumen Anise oil, star Aspirin Camphor (Jap. ref. slabs) Cassia lignea Cloves Farina Hydroquinone Menthol Mint oil (Jap.) Paraldehyde Pimento	Barbitone Benzoic acid Borax Borax glass Boric acid Canary-seed Caraway-seed Chloral hydrate Cream of tartar Dill-seed Ginger Guaiacol carb. Methyl salicylate Milk-sugar Pepper Pot. permang. (Jp.) Salol Soda benzoate Theobromine, pure, and soda sal. Thymol Vanillin Wood oil (Ch.)

### Cablegram.

NEW YORK, March 19.—Business in drugs is quiet. Menthol has advanced to \$5.90, and peppermint oil in this has advanced a further 50c. per lb. to \$9.00. Morphine salts are lower, sulphate having been reduced to \$10.80 per oz. in bulk, and diacetyl hydrochloride to \$13.95 per oz. in bulk.

ACETANILIDE.—Although present prices involve a loss to owners, there is keen competition for the small orders about; 3*s.* is the spot value.

ACETIC ACID.—It is believed that prices have reached their lowest point, especially as freights have been raised by 2*l.* per ton, and space for this product has become exceedingly difficult to obtain. Glacial 99-per-cent. is quoted at 90*l.* per ton in barrels, and 80-per-cent. pure at 80*l.* per ton for shipment from U.S.

ALBUMEN is easier, Chinese egg offering at 4*s.* 4*d.* per lb. on the spot.

ANISE.—In the absence of business, quotations are nominal at 75*s.* per cwt. for Russian and 90*s.* for Spanish.

ANISE OIL (STAR) is easier, with "Red Ship" brand offering at 4*s.* 6*d.* per lb. on the spot, at which sales have been made.

ANTIMONY has been very erratic amid the recent slackness, although there seems a little more demand from con-

sumers, who are, doubtless, out of stock. The tendency has been easier, while deliveries have been made from Government stocks of regulus at some concessions down to about 43*l.* per ton, which compares with the last official price of 45*l.* Foreign regulus in the open market has been done at various prices down to about 36*l.*, although some business was also done at Liverpool ex warehouse at 39*l.* The tone now seems steadier. There is no sign of interest in Chinese crude, while licences to import are still withheld. Some people call crude nominally 25*l.* to 30*l.* on the spot. It is reported that cheap offers have been made to America from China.

ARROWROOT.—At auction 10 kegs Bermuda were bought in at 5*s.* per lb.

ASPIRIN.—The position remains weak, with prices varying from 7*s.* 6*d.* to 7*s.* per lb. as to quality. At these figures it looks as if some makers will be unable to find a working margin of profit.

BALSAM TOLU.—Spot sales have been made at 6*s.* 6*d.* per lb.

BARBITONE.—Competition has forced down the price to 62*s.* 6*d.* on the spot, and the export demand has fallen off considerably.

BENZOATES.—From 9*s.* 6*d.* to 9*s.* per lb. is being quoted for benzoic acid, but spot stocks are plentiful, and as the home production is increasing considerably, lower prices are looked for, with the possibility that the market may become independent of American supplies. Sales of benzoate of soda have been made at 7*s.* 6*d.* to 7*s.* 3*d.* on the spot.

BENZONAPHTHOL can be had at 25*s.* per lb. on spot.

BISMUTH.—The Bismuth Order, 1918, and the Bismuth (Amendment) Order, 1919, have been suspended.

BORAX has been reduced by 3*l.* per ton, and boric acid by 8*l.* per ton, the following being makers' prices: Borax, crystal or granulated (commercial), 39*l.* per ton; powdered, 40*l.*; extra fine powdered, 41*l.*; B.P. crystal or granulated, 41*l.*; powdered ditto, 42*l.*; extra fine powdered, 43*l.* Boric Acid, crystal, granulated, or small flaked (commercial), 72*l.*; powdered ditto, 74*l.*; extra fine powdered, 76*l.*; B.P. crystal, 82*l.*; powdered, 86*l.*; extra fine powdered, 88*l.* Borax Glass, lump, packed in free tin-lined 1 cwt. cases, 99*l.*; powdered ditto, 100*l.* Preservative XXX, 102*l.*, packed in free 2 cwt. bags unless otherwise stated; 1 cwt. bags, 1*l.*; 1 cwt. kegs, 3*l.*; 2 cwt. casks, 2*l.*; and 5 cwt. casks, 1*l.* per ton extra. Cases and other packages at cost.

BROMIDES.—Stocks are small, but there is a fair quantity on the way and just landing, which the markets can easily absorb. Spot prices are unchanged, potash offering at 2*s.* 9*d.* to 3*s.*, sodium at 2*s.* 6*d.* to 2*s.* 9*d.*, and ammon. at 2*s.* 11*d.* to 3*s.* per lb.; to arrive these prices can be shaded.

CAMPHOR (REFINED) is quiet, with spot sales of Japanese 2½ lb. slabs at 8*s.* 10½*d.*; sales of ¼-oz. tablets have been made at 9*s.* 3*d.*

CANARY-SEED.—In consequence of fresh arrivals the price is lower at 235*s.* to 250*s.* per quarter for ordinary to good Morocco. The attention of the Food Controller has been called to the high prices charged to breeders, and in view of the importance of maintaining the canary-breeding industry in this country, he will consider the desirability of fixing prices for seed, unless sellers as a whole bring their prices more into line with the prices now being asked for the more recent and plentiful arrivals. Prior to the war there was a considerable export trade in canaries, our chief competitor being Germany, and it is important that breeders in this country should be able to secure this trade unhandicapped by artificially high prices for the principal article of the birds' diet.

CARAWAY-SEED.—Morocco quality on the spot is lower at 190*s.* per cwt.

CARBOLIC ACID continues weak, the nominal value of 39° to 40° C. crystals being 6*d.* per lb. in large drums.

CASSIA LIGNEA is easier, with sellers of whole selected or broken at 85*s.* on the spot.

CEDARWOOD OIL.—American is offered at 2*s.* 6*d.* per lb.

CHILLIES.—At auction 200 packages Nyasaland offered, and 29 sold at 59*s.* for good small bright.

CHLORAL HYDRATE is much neglected, although very low in price, and with heavy stocks 5*s.* 9*d.* per lb. in bond is quoted for crystals in jars.

CINCHONA.—The exports from Java during 1918 amounted to 2,439,000 kilos., against 3,118,000 kilos. in 1917.

CITRIC ACID is quiet at 4*s.* 6*d.* per lb., which figure is still much below the Italian parity. The demand is expected to revive before long, when an improvement is looked for.

CITRONELLA OIL.—Ceylon on the spot is offered at 3*s.* 1½*d.* and Java at 3*s.* 9*d.* The exports from Java during 1918 amounted to 228,124 kilos., against 515,763 kilos. in 1917.

CLOVES are inactive, with spot sales of fair Zanzibar at 9½*d.* to 10½*d.*, and to arrive April-May shipment is quoted at 8½*d.* per lb. c.i.f.



**COCAINE.**—Demand is steady, and the price of hydrochloride has eased slightly at from 39s. to 40s. per oz.

**COCA-LEAVES.**—The exports from Java during 1918 amounted to 500,000 kilos., against 179,000 kilos. in 1917.

**COCA-BUTTER.**—The restrictions on the importation have recently been removed, and a general licence has been issued with effect from March 17, which authorises the sale of cocoa-butter, whether home produced or imported, free from all restrictions as to price or otherwise, imposed by the Cocoa Butter (Provisional Prices) Order, 1918, and the Cocoa Butter (Requisition) Order, 1918 (see p. 56). In London a good business has been done up to about 2s. 6d. per lb.

**COD-LIVER OIL.**—Our Bergen correspondent writes on March 11 that the official reports give the following results of the cod-fisheries up to March 8:

	1917	1918	1919
Catch of cod (millions) ... ..	5.0	2.9	3.8
Yield of c.l.o. (hect.) ... ..	8,661	3,290	5,176
Liver for "raw" oils (hect.) ... ..	1,892	973	1,030

The export restrictions from Norway have not yet been removed, but when they are the principal refiners hope to be in a position to offer. Subject to a licence being granted within six weeks, there is an offer of new medicinal Lofoten oil at 350s. per barrel c.i.f.

**COPPER SULPHATE.**—The position continues uncertain in the absence of any notable demand for export. Buyers in this direction seem very reticent, and the outlook for merchants remains disappointing. Developments in metallic copper having indicated a much firmer tendency lately, sulphate makers do not seem eager to look out for new business at current prices, although there are a few cheap offers about, especially of second-hand lots. The tone, nevertheless, is somewhat firmer at around 48l. Liverpool f.o.b. There is not much prospect of the export trade being restored to anything like the normal for some time, as there are various restraining factors at work. Manufacturing operations on the Continent are on a larger scale than formerly.

**CORIANDER-SEED.**—There is no demand, and quotations remain nominally steady at 25s. to 28s. 6d. per cwt. for ordinary to good Morocco.

**CREAM OF TARTAR.**—The greatest irregularity prevails in prices, and sellers in some instances are open for reasonable bids. The trade demand appears to have been seriously affected by the use of substitutes, and much lower prices are expected.

**CMIN-SEED** is unchanged at 42s. 6d. to 47s. 6d. per cwt. for common to good Morocco.

**DILL-SEED** is quoted lower at 35s. per cwt. for ordinary and 40s. for re-cleaned.

**EUCALYPTUS OIL.**—The demand remains good, and it is possible to buy B.P. oils at 3s. per lb., with old-established brands at higher rates. Spot supplies are plentiful, and it is not anticipated that the market will move much either way for some considerable time.

**FARINA** is easier, No. 1 Japanese offering on the spot at 34s.; afloat is 32s. 6d., and March-May 32s. c.i.f. *Sweet* is inactive at 32s. spot.

**FENNEL-SEED** is offering at 42s. 6d. per cwt., being lower.

**PENUGREEK-SEED** is steady at 14s. per cwt. for Morocco.

**FORMALDEHYDE.**—The price at which the Government distribute has been raised to 130l. per ton in casks. There is a fair stock available, and further arrivals have taken place.

**GINGER.**—At auction 346 bags Japanese offered and 170 sold without reserve at 30s.

**GLUCOSE** is quiet, with American liquid offering at 50s. per cwt. on the spot and end of March delivery at 47s. 6d.

**GUAIACOL CARBONATE.**—Owing to the heavy stocks, lack of export demand, and keenness to realise, prices are being badly cut, and orders can be booked at 50s. per lb.

**HEXAMINE.**—Although there are large stocks on spot they are firmly held, and it is difficult to buy below 5s. 6d. per lb.

**HONEY.**—Arrivals to London comprise 1,011 cases from New Zealand and 982 cases from New York.

**HYDROQUINONE** should be in better demand presently; from 12s. to 11s. 6d. is quoted.

**LAVENDER OIL.**—Best French is quoted at 32s. 6d. per lb. for 36 to 38 per cent.

**LINALOE OIL.**—Mexican is still unobtainable.

**LINSEED OIL.**—The trade demand lately has certainly been more active in anticipation of increased needs towards the spring, and the tone is firm at the official price in force. Crushers are carrying on operations as far as labour will permit, while large quantities of seed are available.

**LITHIA CARBONATE** can be had at 8s. per lb. to arrive, which figure is comparatively cheap and worth attention.

**MENTHOL** has been quiet, with spot sellers of Kobayashi-Suzuki at 21s. 3d. per lb.

**METHYL SALICYLATE.**—Market is much overstocked, and this accounts for the low prices of 3s. 3d. to 3s. which are being accepted.

**MILK-SUGAR.**—The Government have reduced their price, which enables dealers to sell at 1s. 9d. to 1s. 10d. for B.P. powdered. A New York advice, dated February 27, reports that the export demand has stopped and supplies are accumulating; 55c. to 57c. is quoted.

**MINT OIL** is quiet at 5s. 3d. per lb. on spot for Kobayashi-Suzuki. Speculative interest has subsided, but when trading conditions become more normal the Central Powers are likely to be large buyers.

**PARALDEHYDE.**—Competition has forced the market down to 5s. 3d. to 5s. per lb. on the spot.

**PEPPER** is lower, with spot sales of fair black Singapore at 9d., fair Tellicherry at 9½d., and Aleppy at 9d. White Singapore is quoted at 1s. and white Muntok at 1s.

**PEPPERMINT OIL.**—Our New York cable quotes \$9.00 per lb. for American tin oil, but the market remains a very restricted one in view of the very small stocks. The spot (London) value is about 40s. per lb., and a further advance is expected. H.G.H. is quoted at 55s. London terms.

**PHENACETIN.**—The recent large stocks on the spot have been gradually worked down to a much smaller compass, and it is not at all unlikely that the position will shortly improve; lowest prices are from 10s. 6d. to 10s. per lb. for powder, while crystals are scarce.

**PHENAZONE.**—With the limited stocks prices are steady at from 54s. to 55s. per lb.

**POTASH COMPOUNDS.**—The Potassium Compounds Order, 1917, dated October 17, 1917, has been suspended in so far as it relates to kelp.

**POTASH PERMANGANATE.**—Some parcels of Japanese have arrived which will have to be sold at a loss, and 4s. 6d. per lb. would not be refused; others quote 5s., which is also the price of English make.

**PYROGALLIC ACID** ought to be in better demand shortly, in view of the photographic season, and present prices are regarded as reasonably low at 15s. for resublimed and 13s. 6d. for crystals.

**QUININE.**—The exports of quinine salts from Java during 1918 amounted to 251,104 kilos., against 131,518 kilos. in 1917.

**RESORCIN** is quoted at from 27s. to 27s. 6d. per lb. on spot.

**SACCHARIN.**—Fair-sized quantities have again come forward from the United States. Demand remains quiet, with small spot sales of American 550 pure at from 142s. to 147s. 6d. per lb., duty paid, or 10s. to 15s. 6d. per lb. in bond. The imports into the U.K. during February and the two months ended February were as follows:

	1917	1918	1919
Feb. ... ..	Oz. 30,153	133,993	81,196
Value	£5,610	55,614	8,680
Jan.-Feb. ... ..	Oz. 94,628	236,904	353,633
Value	£15,935	99,233	57,073

**SALICYLATES.**—Owing to the fact that carbolic acid is obtainable by large users at below 6d. per lb., makers of *salicylic acid*, B.P., are able to book forward contracts at 2s. per lb. At this price it looks as if exports from the U.S. will cease. *Soda salicylate* B.P. powder is quoted at from 3s. 3d. to 3s., and 3d. extra for small flake.

**SALOL** can be had at from 5s. 3d. to 5s. per lb., at which prices export demand should revive.

**SEEDS, OILS AND FATS.**—Until further notice all persons are licensed to deal in the seeds, oils and fats specified in the first schedule to the Order of May 1, 1917, irrespective of quantity, subject only to the condition that no such dealing be effected at a price in excess of that fixed as the maximum by the Order as extended and modified (see also p. 48).

**SHELLAC** is quiet, with usual standard TN Orange quality quoted at from 217s. 6d. to 220s. spot, at which sales have been made; value of AC Garnet is 230s. for cakey.

**SODA HYPOSULPHITE.**—Pea crystals can be had on the spot at 27l. 10s. per ton.

**STROPHANTHUS.**—Genuine *Kombé* has been unobtainable on this market for a lengthy period, but we understand that a parcel is now close at hand.

**SULPHOCARBOLATES.**—Soda is quoted at 2s. 5d. and zinc at 2s. 6d. per lb.

**TANNIC ACID** has been in more inquiry at from 9s. 6d. to 9s. per lb. for *levis*.

**THEOBROMINE.**—The pure alkaloid is offered at the lower rate of 40s., and sodium salicylate is quoted at 27s. 6d. per lb.

**THYMOL** *ex* ajowan seed is offered at 32s. 6d. per lb. on spot.

**TURPENTINE.**—The spot demand for turpentine is not over brisk at the regulated price. Dealings in forward



deliveries have assumed some importance with contracts arranged for July-December at a substantial discount compared with the official spot price. By that time, of course, much freer supplies will be available. Forward prices stand within a few shillings below 70s. per cwt. The Turpentine Control Order, 1918, has been suspended except in so far as relates to turpentine substitute, as defined in the Order—viz., mineral turpentine, white spirit, white oil, or any product of petroleum under whatever name sold or known (except motor spirit and benzene), capable of being used as a substitute for spirits of turpentine.

VANILLIN has been reduced to 45s. per lb. on spot.

WAX, BEES'.—A Mombasa market report, dated December 31, states that about 50 to 60 tons were sold for export at Rs. 25 to Rs. 27 per frasila (36 lb.).

WAX, VEGETABLE.—Japanese is quiet, with sellers at 65s. per cwt. on spot.

WINTERGREEN OIL.—Genuine is dearer at 27s. 6d. per lb. on spot.

WOOD OIL.—Chinese is 5s. per cwt. cheaper at 85s. in barrels on the spot, and cases, for shipment, at 80s. per cwt. net ex wharf.

### American Arsenic.

According to the United States Geological Survey, the production of arsenic during 1912 was approximately 12,000 short tons. This quantity about equalled the estimated demand and was 3,350 tons greater than the average yearly supply for the period from 1911 to 1916 inclusive. The domestic production of arsenic in 1918, as estimated from the known production during eleven months, was about 6,395 short tons, and was made by four companies. This quantity is 10 per cent. greater than that produced in 1917. The value of the output in 1918 at 9c. per lb. was \$1,151,000, but the actual value was probably slightly greater, according to officials of the Geological Survey, as that price was not fixed until February 1918. Owing to the lower prices fixed under Government regulation, this value is lower by \$150,000 than the value of the 5,826 tons produced in 1917.

### Cinchona Research in Java.

"De Indische Mercuur" of January 24 points out that probably very few people in Europe are aware that a cinchona experiment station exists in Java. The station was founded by decree of the Governor-General in 1911, and, though it has issued a few bulletins, it has not published an annual report until this year, when the reports for 1916 and 1917 were issued together. The director of the station is Dr. M. Kerbosch, who is also director of the Government cinchona plantations, and the advisory committee includes: Messrs. C. L. M. Brants, W. J. J. Coninck, A. E. Reynst, J. A. van Riemsdyk, and O. van Vloten. The objects of the station are to conduct researches on cinchona, and to give advice on agricultural, botanical, chemical, and entomological matters in that connection. Analyses of bark are also made, ten florins being charged for a commercial analysis, and five florins for an analysis having a purely agricultural end in view. At present the station is without a botanist, but it is expected that this will be remedied shortly by the arrival of M. Sluiter, who has undertaken a research on the morphology of flower and fruit formations in cinchona, which is expected to yield results of considerable value in connection with the production of hybrids. Dr. Bernard, Director of the Tea Experiment Station, undertook an investigation into the effect of humidity on the causation of disease in cinchona, and also looked into the question of the loss of seed in seed-beds. In connection with the latter it appears that complaints of the quality of the seed supplied from the Government cinchona plantations have been made. The matter was investigated by Dr. J. J. van Hall, director of the Institute of Plant Diseases, who could find nothing wrong with the seed, but called attention to the fact that when it was sown large losses frequently occurred owing to attacks by mites. It is pointed out in the report that an entomologist should be added to the cinchona experiment station staff to deal with this and similar questions, so that the station can be independent of external assistance.

Another question that is receiving attention is the effect of the temperature of drying on the alkaloidal content of bark. The vexed question of the differences between analyses of one and the same bark carried out in Java and in Holland is fully discussed, and it is pointed out that little progress can be made until the Dutch analytical bureaux publish their methods of analysis. The director, however, suggests that something might be done if a careful comparison were made by a competent analyst of all published methods of analysis of bark, and the defects of each were discovered. It might then be possible to evolve and publish a method which would be acceptable to all concerned.

### Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the various British ports:

To London	To Liverpool	Oils, fixed:
(Mch. 10 to 17).	(Mch. 10 to 15).	Cotton (U.S.), 100 brls.;
Casbaw nuts, 568 cs.	Albume, 115 cs. 367	Niger oil, 200 cks.;
Chemical products, etc.,	pkgs.	fish (Jp.), 800 hds.;
unrated (Fr.), 28	Almonds (Sp.), 360 cs.	palm, 348 cks.; tea-
pkgs. 5 cs. (Halli-	155 sks. 40 bgs.	seed (Ch.), 1,000 cs.;
fax, N.S.), 98 brls.	Barytes (U.S.), 796 brls.	wood (Ch.), 1,700 cs.
Acetone, 63 drms.	Bronze powder (Jp.),	1,922 pkgs. 462 cks.
Alcohol, wood, 47	22 cs. (St. John,	(S'pore), 200 drms.
drms.	N.B.), 36 cs.	Rosin (U.S.), 23,965
Argol (Cape), 298	Chemical products, etc.	brls.
bgs.	(U.S.), 196 brls.	Seeds, etc.: Ground
Betanaphthol (Halli-	Acetic acid (St. John,	nuts, 83,761 bgs.;
fax, N.S.), 164 brls.	N.B.), 280 brls.	palm kernels, 582
Cinchonine mur.	Alum (Boston), 548	tons 20,633 bgs.
(Amst.), 3 cs.	bgs.	Soaps (N.Y.), 1,000 cs.
Cresote carb. (Fr.),	Argol, 60 cks.	(St. John, N.B.),
6 cks.	Arsenic pow. (Jp.),	3,000 cs.
Oxalic acid (Norw.),	62 cs. (S'pore), 118	Soy (Ch.), 50 cks.
60 kgs.	cs.	Spices: Cassia buds,
Pot. oxalate neut., 20	Campbor, cr. (Ch.),	400 cs.; cassia
kgs.	10 c.	ligna, 200 cs.;
Soda benzoate (Fr.),	Campbor, ref. (Jp.),	broken, 500 bls.;
3 cs.	50 cs.	cinnamon (Penang),
Soda hyposulph., 700	Cream of tartar	80 bls.; cloves
kgs.	(Sp.), 12 brls.	(Zanzibar), 1,500
Copra (Sey.), 20,179 bgs.	(Port.), 60 cks.	pkgs.; ginger (Jp.),
Drugs, etc., unrated	Potasbes (St. John,	118 bgs. (H. Kong).
(Fr.), 3 cs. 37 bls.;	N.B.), 5 brls.	2,675 pkgs.; pepper,
herbs (Sp.), 31 sks.	Pot. murate (U.S.),	wh. (S'pore), 118 bgs.
Cuttlefish - bone	11 bgs.	Starcbes (Jp.), 1,767
(B'bay), 139 pkgs.	Radium bromide	pkgs.; dextrin (Jp.),
Ergot (Sp.), 15 sks.	(N.Y.), 4 pkgs.	1,014 bgs.; farina,
Heubane (P. Sudan),	Saccharin (N.Y.), 100	3,213 pkgs. 7,458
8 bls.	cs.	bgs.; sweet, 198
Nux vomica, 320 bgs.	Soda acetate (St.	bgs.; rice, 140 bgs.;
Opium (B'bay), 115	John, N.B.), 61	wheat (Jp.), 240 bgs.
cs.	brls.	(U.S.), 2,291 bgs.
Senna (Port Sudan),	Soda benzoate (N.Y.),	3,010 sks.
101 bls.	8 brls.	Talc, powd. (Fr.), 695
Turmeric, 50 bgs.	Copra (Penang), 4,768	bgs. 99 cs.
Valerian (B'dam), 65	bgs. (Zan.), 15,150	Tallow (B'more), 100
bls.	pkgs. (S'pore), 175	tes.
Vanilla (Sey.), 6 cs.	tons 22,289 bgs.	Wax, bees' (E. Af.), 41
Dyes, dyeing and tan-	Drugs, etc.: Herbs	hds. 20 bgs.
ning materials, etc.:	(N.Y.), 50 bls.	Wax, paraffin, 3,093
Dyes (Fr.), 19 pkgs.;	Cuttlefish-bone (Fr.),	brls. 1,139 bgs.;
myrobals, 1,232	103 cs.	scale, 225 bls.
bgs.; tanning ext.	Galangal, 50 bls.	Wax, veget. (Jp.), 200
(Fr.), 200 cks.	Galls (Ch.), 874 pkgs.	cs.
Glaxo (N.Z.), 8,657 tins	Guinea-grains (W.C.	Zinc oxide (U.S.), 500
Glucose, 180 brls.	Af.), 66 bgs.	brls.
Gums, resins, etc.:	Kola (W.C. Af.), 87	To Folkestone.
Karaya (B'bay), 100	bgs.	Drugs (Fr.), 14 pkgs.;
bgs.; gums, not	Jalap (V.C.), 122 bgs.	perfumery (Fr.), 45
described (B'bay), 44	Liquorice (Bibao),	pkgs.
pkgs. (Port.), 55 brls.	2,008 pkgs.	To Glasgow.
(Port Sudan), 16,187	Liquorice-juice, 100	Dextrin, 1,320 bgs.;
bgs.	pkgs.	glucose, 1,008 brls.;
Honey (N.Z.), 1,011 cs.	Liquorice-root (It.),	wheat starch, 12,198
Oils, essential, not de-	33 bls.	bgs. 1,290 sks.
scribed (Seychelles), 9	Scammony-root	To Hull.
cks. 25 crts. 4 drms.	(V.C.), 434 bgs.	(Mch. 10 to 14).
5 cs.; lavender (Fr.),	Tuba-roots (S'pore),	Borax (N.Y.), 2,085
7 cans. 5 cs.; sandal-	156 bls.	sk.; cottonseed
wood (E.I.), 93 cs.;	Dyes, dyeing and tan-	(Alex.), 7,493 tons.
tar-pentine (Fr.),	ning materials, etc.:	2,260 bgs.; henna
1,600 cks.	Cube gambier, 25	(Malta), 14 bls.;
Oils, fixed: Coconut	tons and 480 bgs.;	linseed (E.I.), 49,936
(Sey.), 5 cks. 103 cs.	block, 50 tons and	bgs.; myrobals, 4,576
spem, 77 brls.;	279 cs.; indigo	bgs.; orange-
whale (Cape), 400	(Colon), 28 pkgs.;	peel (Malta), 214 cs.;
drms.	logwood (Jam.), 120	wax, paraffin, 350
Perfumery (Fr.), 80 cs.	tons; logwood ext.,	bgs. 280 cs. 1,924
Rosin (Fr.), 1,061 cks.	999 cks.; tanning	brls.; scale, 1,896
(Port.), 151 brls. 259	bark ext. (U.S.),	brls.
cks.	15,133 brls.	To Manchester
Seeds (bags): Ground	Egg products: Egg	(Mch. 10 to 14).
nuts (W. Af.), 1,533	yolk, 2,773 pkgs.;	Groundnuts (W.C. Af.),
tons 2,020 bgs.;	dried whole egg,	883 bgs.;
lin. (E.I.), 13,421; mus-	1,021 pkgs.;	linseed (B'bay), 72,310
terd (E.I.), 50; palm	eggs, 42 pkgs.	bgs.;
keru, 76.	Gelatine (Sp.), 65 cs.	palm kernels, 2,391
Spices: Cassia pulv.,	Glucose, 120 brls.	tons 27,057 bgs.;
348 bgs.;	Gum acacia (W.C. Af.),	palm oil, 458 cks.
cinnamon bark (Sey.),	128 cs.;	To Southampton
177 bgs.;	copal	(Mch. 10 to 14).
cloves (Sey.), 7 bgs.;	(S'pore), 1,612 cs.;	Casein (St. Malo), 304
ginger (B'bay), 120	damar (S'pore), 855	bgs. 268 pkgs.;
bgs. 309 bks.;	cs.; gums, not de-	chemical products
nutmegs (B'bay), 15 cs.;	scribed (Alex.), 265	(Fr.), 12 cs.;
pepper (B'bay), 3,530	bgs. (Cartagena), 218	drugs
bgs.	pkgs.	(Fr.), 3 cs.;
Starch, wheat, 860 bgs.	Molasses, 3,000 tons	gelatin
Stearic acid, 254 bgs.	Monazite sand (Pen-	(Fr.), 60 cs.;
Talc (Fr.), 525 bgs.	ang), 111 bgs. 477	indigo
Tallow (N.Z.), 1,314	drms.	paste (Fr.), 60 cks.;
cks.	Oils, essential: Anise,	liquorice-root (Fr.),
Wax, bees' (E.I.), 14 cs.	star, 125 cs.;	22 bls.;
(Port Sudan), 1,278	camphor, br. (Jp.), 100	tartar (Fr.),
pkgs.	cs.; mint (Jp.), 208	42 cks.
Wax, paraffin, 880 brls.	cs.	
250 bgs.;		
scale,		
2,395 brls.		





### Drug-farming for Disabled Soldiers.

SIR,—The letter of your correspondent Mr. C. Rae-Brown (*C. & D.*, March 15, p. 70) is, I fear, too optimistic. The young soldier's very pertinent query, "But is there sufficient money in it to keep things going for a chap like me?" requires a straightforward answer. Common sense indicates that any commercial product for which the demand is limited is less likely to be profitable to a number of persons than articles of food for which the demand is practically unlimited. A farmer to whom I gave some belladonna seed some years ago, before the war, and who had all the necessary manure, labour, and appliances without going to any fresh expense, told me as the result of his experience that it paid him better to grow potatoes, and the present price of dried belladonna root, which this week is being offered at 1s. 7½d. lb., seems to confirm his statement. But the matter is quite different with regard to sweet or pot herbs used for culinary purposes. Shiploads of dried sage, mint, marjoram, savoury, parsley, basil, and tarragon are imported every year from the South of Europe, although all these can be grown in every cottage garden in this country, and need no special knowledge to propagate beyond that possessed by ordinary nurserymen and gardeners. All that is needed is large drying apparatus where those herbs can be dried by the sun, and these, if erected in country districts by the Board of Agriculture, could be utilised equally for fruit-drying if required, and even a small charge to cover expenses might be made for drying such sweet herbs by the cwt. The commercial charge for drying is about 5s. per cwt. With this help the cultivation of sweet herbs might form a useful adjunct to the ordinary work of a small holding or allotment. A good deal depends, of course, upon the personal element. As an industry that ought to be developed in this country there is no doubt that the cultivation of the herbs which for years we have been importing from the Continent should be encouraged here, and if help in investigating the best methods of cultivation and the selection of the best varieties to grow be given by research carried on at our agricultural colleges or as a part of university work there is no reason why British herbs should not win, not only a name but foreign markets as well, as lavender, peppermint, and foxglove do at the present time, and as English marigold flowers, owing to their superior quality, have already begun to do. There are fields of enterprise open to men of energy. The menthol plant has not yet been grown commercially in this country, although Germany has grown it successfully in South-West Africa, and it is now being tried in South Australia. The best angelica that used to come from Saxony, and the finest variety of caraway that before the war came from North Russia, would command the market here and elsewhere if grown in this country, and the oil of the German or "Brandy" mint, which is richer in carvone than the English mint, used to be imported from Germany, although it can be grown perfectly well in this country. Nor is peppermint grown to the extent that it might be in Great Britain. One American alone farms 4,000 acres of this plant, yet the English peppermint oil commands the highest price in the markets of the world. Angelica stems candied are imported from France, but I am told by buyers that they would gladly purchase it in this country if it were possible to get it at a price that would compete with the Continental product. One has only to remember that every grocer sells small packets of dried culinary herbs, and that every housewife in the kingdom (and they number many millions) buys during the winter these dried herbs, in order to realise how large is the market for them. Added to this, I am told that the requirement for the Army and Navy of these dried herbs is enormous, and that those who dry them often find it impossible to get as much parsley, mint, sage, thyme, etc., as is required for drying. So far as the collection of wild herbs is concerned, this is a matter of the cheapest labour, such as that of children, and in every school in the country the recognition of the herbs regularly used for medicinal purposes should form a part of education. This is done on the Continent, where the industry is regularly organised. Those who are interested in this matter should read the account of what is being done on the Continent given in the March and April issues of the *Land Agents' Society's Journal* of last year. One energetic schoolmistress—Mrs. Bailey, of Kingscliffe, near Peterborough—told me that last year she sent 80l. worth of wild herbs to a large wholesale herbalist in Yorkshire, which had been gathered by her school-children, who enjoyed the

work, and that the neighbouring landowners willingly permitted collection of herbs on their estates, so long as the children were kept under control. Confirming what I have written I should like to quote from a letter just received from a large grower of herbs: "I should be glad to know if you consider this low price (for belladonna) will continue, as if so I am putting the plough through my lot. Cabbage would pay much better, and only one-twentieth the work and a sure market. I have offered some belladonna tops at 2s. lb., and still have them."

HERBALIST (91/74).

### Recognition of the Amalgamated Union.

SIR,—The letter of Mr. A. Boyd (*C. & D.*, March 15, p. 71), depreciating the efforts of drug and chemical workers in being able to look after themselves, is one of those which would never have been written had he given a moment's thought to the consequences of trying to stem a natural wish of the workers in question desiring industrial unity. It is quite true that, acting on the advice given us from the Ministry of Labour, we applied for recognition to such employers who believe in meeting their workers' unions—that is, to the acting Secretaries, Mr. Glyn-Jones and Mr. A. Boyd, the former representing the employers, and the latter, in addition to his position as London Secretary of the National and General Workers' Union, acted as the Hon. Secretary for five Unions which were concerned in the deal. The employers treated us courteously, but the Unions boycotted us from the start, and even forgot to answer our letter until prompted that it was necessary. We satisfied the employers of our *bona fides*, and have concluded a separate agreement with them, and are consequently quite independent of Mr. Boyd and his five unions. We no longer desire recognition from Mr. Boyd, as we have secured it independently. On the larger question of industrial unity we do not desire to enter into a controversy, as we know we are quite strong enough to command interest in our claims without being bolstered up, and the question, so far as we are concerned, is outside the purview of Mr. Boyd and his five unions.

HERBERT SKINNER.

### Dentists Act Committee.

SIR,—I am rather pleased to find that the Dentists Act Committee's report arrives at conclusions which are practically what I have myself advocated in recent years—especially the stipulation in regard to the essential question, "Will you choose the dental or the pharmaceutical profession?" If anything, five years ought to be enlarged to ten. I know men who have taken up dentistry with the easy nonchalance that would lead them to go in for paints as a side-line, and spectacles. I do not suggest that anything I may have written has influenced the Committee, but I have been fifty years in the trade, and for a good many of these years closely connected with the practice of dentistry. I saw a lot of it as an apprentice. I practised on my own account before 1878, and studied the subject from A to Z. In my view it is a profound mistake to try and do the two together. If a man devotes himself to dental work, and can make enough out of it—on his own account, of course—to bring in 150l. to 200l. a year, he will be wise to dispose of his drug business and devote all his energies to the dental side. I know one man who did this, and did it with great reluctance; but he has for years been far ahead of his compatriots of the old drug days in the matter of worldly goods. I must confess myself puzzled at the attitude taken up by some in this matter. Chemists, it seems to me, have their fingers in a good many pies. What was the position in 1878? There was then a clean cut, and all in practice were taken in. Surely a satisfactory position to all concerned. Everyone knew then that after this date a certain course of action was to be required. I have no doubt myself that history will repeat itself, and that, having in 1919 or 1920 admitted Tom, Dick, and Harry to the register, a new generation will arise and clamour for admittance on a new (or the old) argument. The apprentice, after a few years, considers himself as good as his master, and in dentistry he may, in some cases, be distinctly better. If pharmacy had not taken up the dog-in-the-manger policy, claiming so much in the fateful years of the 'seventies and 'eighties, company pharmacy might have been furnished, at the least, with some efficient brake. "Dental Chemist" mentions the medical man: well, in all my experience I have yet to meet the doctor who goes in for all those accumulated trades and hobbies, but this leads to the suggestion that there may be, and are, villages and places where some latitude might be allowed. A country practitioner has to carry on somewhat differently to his medical brother in big towns, and obviously a village chemist might practise dentistry with better results all round than the village blacksmith.

Yours, etc.

J. P. N. (89/22).



## Apothecaries' Assistants.

SIR,—It is with much regret that I learned last week that the Pharmaceutical Society actually intends registering as chemists and druggists without examination a considerable number of untrained persons, namely, the holders of the Apothecaries' Hall Assistants' diploma. It is really disgraceful that, in these days, when the strictest control of poisons was never more urgent, that such persons, entirely ignorant of the Poisons Acts and the retailing of poisons, should be placed upon the register with all the privileges of a "Minor" man. It is grossly unfair to a man who has passed an examination of the "Minor" standard, to recognise the Apothecaries' Hall diploma as a sufficient proof that the person holding it has sufficient skill and knowledge to carry on the business of a chemist and druggist. It behoves every member of the Pharmaceutical Society to exercise the greatest care when the next Council election takes place to elect such members as will safeguard the interests of every member. Surely the most important advantage that should accrue from membership should be that the qualified chemist is absolutely safeguarded. What are the advantages of being a member when such things as these are done at "Head-quarters" in secrecy and the members kept in the dark? Strong opposition is needed to prevent this measure from becoming effective, and I sincerely hope that every member of the Council for whom I voted last year will do his utmost to prevent it. First the "Prelim." standard is lowered, then the "Minor." What next? Registration as a chemist and druggist and title "M.P.S." without examination on payment of the annual subscription of 11. 1s. per annum. All this is done when there is no dearth of qualified chemists, and the recent lists of apprentices and student-associates registered prove that we have an ample reserve of embryo-chemists. Wako up, members of the Council, do justice to your colleagues, or watch your seat at the next Council election. It is unjust to improve the financial position of such a worthy Society by such unjust proceedings. It would be far better to increase the amount of subscription, which no member would complain of, than to occasion the disapproval and disgust of all members by the registration without examination of the holders of the "Apothecaries' Hall" certificate as chemists and druggists.

Yours faithfully,

DISGUSTED LIFE-MEMBER. (89/51.)

## Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

## A Warning.

A Subscriber (89/40) asks us to warn chemists regarding a man who is selling a meat and malt wine for cash on delivery, which, our subscriber states, consist of "nothing more than pinkish muddy water in very dirty champagne-bottles." The bottles are wrapped up in the conventional pink paper, and the wine is stated on the label to be "non-alcoholic, strengthening, and nutritious."

## Triangular Bandages.

A Subscriber (91/7), referring to the reply in the C. & D., March 15, p. 72, reminds us that triangular bandages are allowed to be charged against the Drug Fund. There was a doubt as to whether the word "bandages" in the list of prescribed appliances included triangular bandages, and the matter was referred to the National Health Insurance Commissioners, who decided that these bandages may be supplied.

## Price of Mixture.

C. & S. (86/48) ask us to give an estimate of a fair price for the following prescription. We have added the price as given in the current Insurance Drug Tariff:

Hexamine	...	...	...	5ijj.	4-11
Tr. hyosey.	...	...	...	3iv.	2-45
Ext. hydrast. liq. B.P.	...	...	...	3ivss.	29-54
Ext. collinson. canad. liq.	...	...	...	3ivss.	10-13
Elixir aromat.	...	...	...	3j.	3-53
Tr. carmin.	...	...	...	3j.	0-83
Sp. chlorof.	...	...	...	3ijj.	1-90
Inf. buchu ad	...	...	...	3viiij.	3-32
					55-90

The ingredients thus cost 4s. 8d. exclusive of the bottle. Upon the question as to what is a fair profit upon the transaction we invite suggestions from our readers.

## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. Y. M. (2/19).—LOTIO GLYCERINI Co., B.P.C.—The following is the formula with which our subscriber has been unsuccessful:

White beeswax	...	...	...	1 oz.
Lard	...	...	...	oz.
Hard soap, in powder	...	...	...	oz.
Salicylic acid, in powder	...	2	gr.	
Glycerin	...	...	...	oz.
Almond oil	...	...	...	oz.
Oil of rose	...	...	...	10 minims
Chloroform	...	...	...	10 minims
Distilled water to	...	...	...	20 oz.

This is for a preparation resembling "glycerin and eucumber." The best soap to use, so far as our experience indicates, is the pharmacopœial or Castile hard soap. The formula directs "hard soap, in powder." Commercial hard soap in powder is frequently somewhat rancid. We find it preferable to employ shavings from a block of soap, using about a fourth more than is ordered in the formula. The ordinary hard soap of commerce is quite satisfactory for freshness. A nice product is obtained by dissolving the soap in the water by means of heat on a water-bath, and stirring the solution into the mixture of wax, lard, and almond oil, previously melted together, the remaining ingredients being added before making up to measure. When made in this way the lotion does not separate appreciably until the lapse of considerable time. Some separation is inevitable after a time, as the liquid is not thick. It comes right again when shaken, and belongs to the class of preparations which are best put up in opaque glass bottles. It could be thickened with tragacanth, but we do not advise this: it would not be so milky. The formula belongs to the armchair variety. What is the use of the salicylic acid? It is only a disturbing agent. If it be meant as a preservative, it is quite redundant with the quantity of chloroform ordered. The chloroform, moreover, is in excess of necessity. The "lotion" might pass as chloroform embrocation. Half the chloroform ordered is ample. It is as well to omit the salicylic acid and half the chloroform. The lard used should be quite fresh.

L. D. (72/41).—The following are the formulas for which you ask:

## (1) CHILDREN'S COUGH MIXTURE.

Vin. ipecac	...	...	...	5j.
Mel. depurat.	...	...	...	1b. j.
Ac. acet. fort.	...	...	...	5j.
Aq.	...	...	...	3v.
Syr. rhœados	...	...	...	5j.
Ess. anisi	...	...	...	xxxvj.

## (2) INFLUENZA MIXTURE.

Liq. ammon. acet. conc.	...	...	...	...
Sp. ammon. arom.	...	...	...	...
Sp. æther. nit.	...	...	...	...
Syr. simp. aa	...	...	...	3ij.
Tr. camph. co.	...	...	...	3j.
Aq. camph. ad	...	...	...	xxxvj.

## (3) NEURALGIA MIXTURE.

Ammon. brom.	...	...	...	5j.
Tr. chlorof. et morph.	...	...	...	...
(85)...	...	...	...	5vj.
Tr. gelsem.	...	...	...	5j.
Syr. aurantii	...	...	...	3iv.
Aq. ad...	...	...	...	xxxiv.

Dose 3ss.

## (4) INDIGESTION AND STOMACH MIXTURE.

Bismuth. carb.	...	...	...	5j.
Sodii bicarb.	...	...	...	3j.
Tr. nucis vom.	...	...	...	5j.
Sp. ammon. arom.	...	...	...	3ij.
Aether. chlor.	...	...	...	3ij.
Aq. ad...	...	...	...	5vj.

Dose 3ss.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1869

## How to Extinguish a Lamp.

A correspondent of the "Scientific American" suggests a safe and ingenious plan of extinguishing the light of kerosene lamps. A usual plan is to turn down low, and then blow from under the glass; this, however, requires some dexterity and a good bit of wind. The proposal we refer to is to turn the wick up so as to produce a large flame, but not high enough to smoke; then blow squarely across (not down) the top of the chimney. By so doing a strong current of air is forced across the top of the chimney, and produces a corresponding current up through the chimney; the latter current lifts the flame off from the wick, and instantly extinguishes the flame.



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**B.Sc., F.I.C.**

formerly Lecturer on Chemistry at the University College,  
Exeter, who has for some time acted as their Chief Research  
and Works Chemist, has now joined the Board of Directors.

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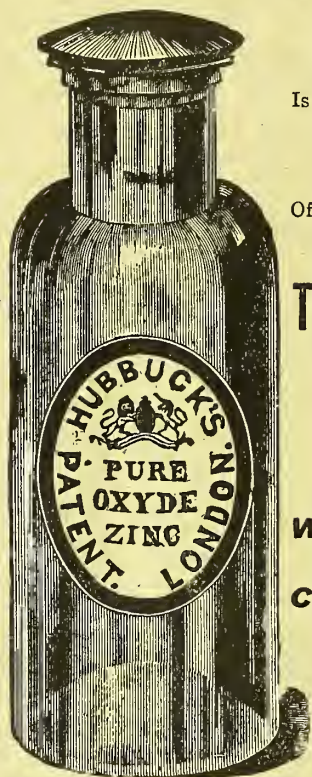
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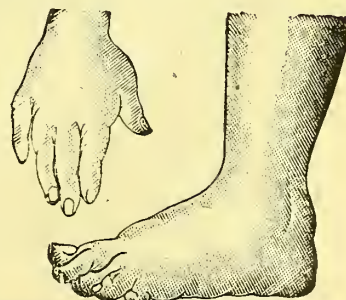
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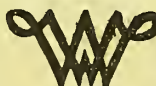
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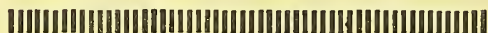
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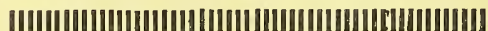
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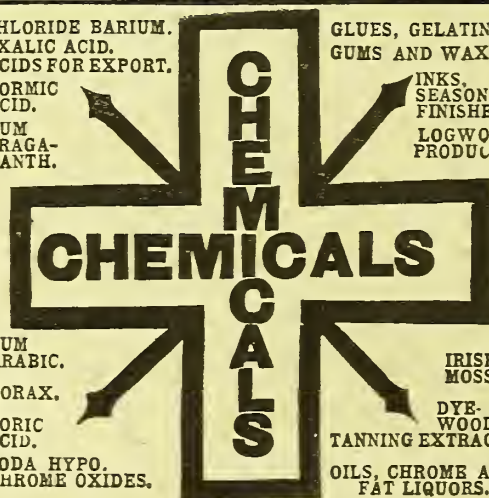
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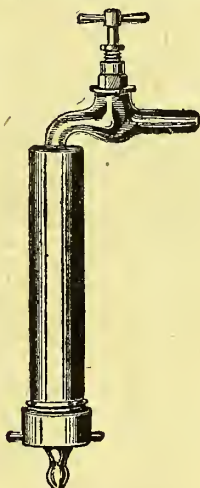
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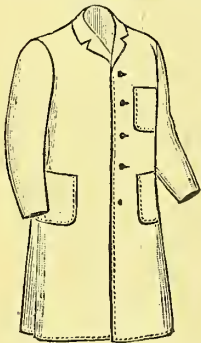
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"E" Quality (Green Label)	1/8	1/8 $\frac{3}{4}$	1/9 $\frac{1}{2}$	1/11	2/2	2/8 per lb.
"C" " (Blue Label)	2/2	2/2 $\frac{3}{4}$	2/3 $\frac{1}{2}$	2/5	2/8	3/2 "
"Superfine" Quality (Gold Label)	2/9	2/9 $\frac{3}{4}$	2/10 $\frac{1}{2}$	3/0	3/3	3/9 "

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No. 1	2/6	2/6 $\frac{3}{4}$	2/7 $\frac{1}{2}$	2/9	3/- per lb.
No. 2	3/6	3/6 $\frac{3}{4}$	3/7 $\frac{1}{2}$	3/9	4/- "

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Plain Hospital	3/5	3/5 $\frac{3}{4}$	3/6 $\frac{1}{2}$	3/8	3/11 per lb.
Plain Superfine	3/9	3/9 $\frac{3}{4}$	3/10 $\frac{1}{2}$	4/-	4/3 "
Boric	2/7	2/7 $\frac{3}{4}$	2/8 $\frac{1}{2}$	2/10	3/1 "

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	1"	1 $\frac{1}{2}$ "	2"	2 $\frac{1}{2}$ "	3"	4"	5"	6"
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	Price per 100 yds.	Price per 6 yds.	Dozen 3 yds.	Packets. 1 yd.
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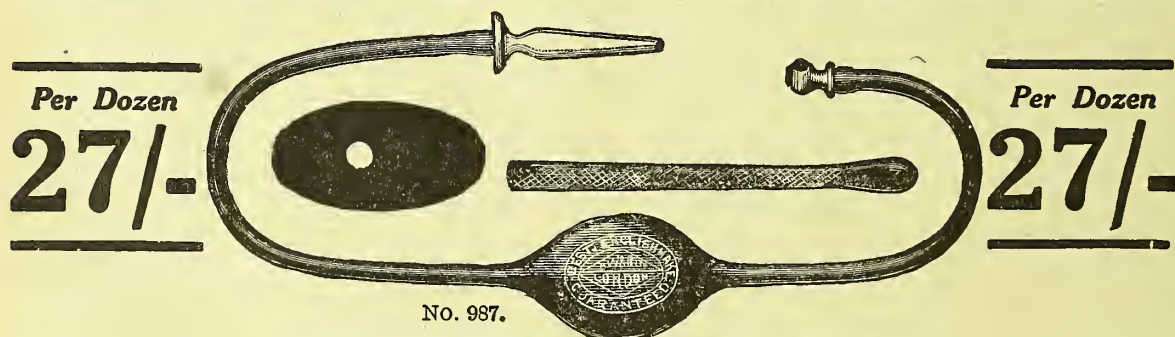
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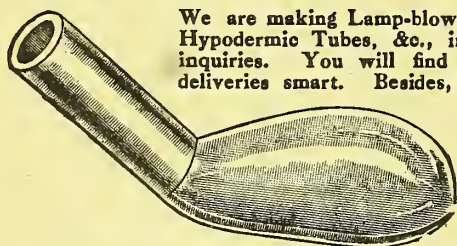


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ELASTIC HOSIERY WITH OR WITHOUT SEAMS, SUITABLE FOR SUMMER WEAR. TRUSSES, SUSPENDERS, LADIES' & GENTS' BELTS MADE FROM POROUS MATERIALS, ELASTIC & LEATHER WRISTLETS, ARM-PIECES & ELBOW SUPPORTS, FOR CRICKET, TENNIS, GOLF & BOATING. GOODS FOR TOILET & SEASIDE TRADE, WASHING GLOVES, BATHING CAPS, WATER-WINGS.

INDIA-RUBBER APPLIANCES & DRUGGISTS' SUNDRIES.



LOWEST QUOTATIONS AND SAMPLES ON REQUEST.

## ASBESTOS FILTER FIBRE

PURE, NEUTRAL AND INSOLUBLE.

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

Write for Samples and Prices to  
**TURNER BROTHERS ASBESTOS Co., Ltd.,**  
ROCHDALE, England.



## BATHING CAPS

LARGE VARIETY OF.  
ORDER EARLY, NET PRICES

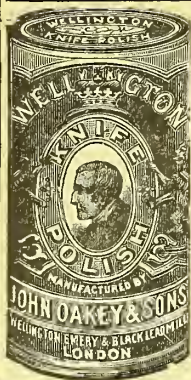
TWO SPECIAL LINES.

Check-Waterproof, Circular ... 7/6 doz.  
Rubber, Helmet Shape, Art Colours, "La Victoire" ... 23/11 "  
Water Wings ... 16/6 "  
Air Cushions, Bed Sheetings, Enemas, Pessaries, Sponge Bags Urinals (Rubber), Water Beds, &c. &c.

**JAMES TOMPKINS, Ltd.**  
(ALL BRITISH),

The Rubber House,  
386 CITY ROAD, LONDON, E.C. 1.  
Estd. 1877. Phone: City 7640.

Full Price List on application.



# **OAKLEY'S** **"WELLINGTON"** **KNIFE** **POLISH**

The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

## **JOHN OAKLEY & SONS, L.M.** MANUFACTURERS OF **Emery Cloth, Black Lead** GLASS PAPER, &c.

### **"WELLINGTON" KNIFE POLISH**

The Original Preparation for Cleaning Cutlery. Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

### **SILVERSMITHS' SOAP**

For Cleaning & Polishing SILVER, ELECTRO-PLATE, etc. Tablets, 6d.

### **"WELLINGTON" BLACK LEAD**

In Solid Blocks, 1d., 2d., and 4d. each, and 1s. Boxes.

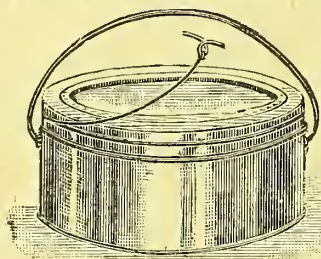
Polishing Paste, Furniture Polish, Plate Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

Westminster Bridge Road, LONDON, S.E. 1.

## **The Northern Tin Canister Works,**

6 Mersey Street,  
**LIVERPOOL.**

Manufacturers  
for the  
Chemical Trade.



*Patent Air Tight Slip-lid Tin*  
for Export.

**TIGHT SEAMING &  
VARNISH BOTTLES  
A SPECIALITY.**

*Prompt Deliveries Assured.*

## **OLIVE OIL B.P.**

Pharmaceutical and  
Finest Edible Cream

**WHOLESALE QUANTITIES ONLY.**

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59 MARK LANE, LONDON, E.C. 3.

Telep.: Ave. 3727. Telegs.: "Polychem, Fen. London."

## **SPRING CLEANING !**

Now is the time to order your supplies.

We are MANUFACTURERS of  
STIFF AND READY MIXED PAINTS.  
SANITARY WATER PAINT (in paste form).  
SANITARY DRY DISTEMPER (in dry powder).  
VARNISHES, ENAMELS, STAINS, POLISHES,  
and a LARGE VARIETY OF PACKED GOODS.  
SPECIAL LINES IN HOUSEHOLD DYES,  
WOOD STAINS, INK POWDERS, DOMESTIC  
AND SPRING CLEANING PREPARATIONS.  
It will PAY YOU to write for PRICE LISTS.

## **TEXALO WATER PAINT**

The IDEAL SANITARY WASHABLE WATER  
PAINT supplied in twenty beautiful shades in

4-lb. 7-lb. and 14-lb. tins.

## **RAYOLENE MIXED PAINT**

FINEST DECORATORS' QUALITY

1-lb. 2-lb. 4-lb. 7-lb. 14-lb. tins.

Write for SHADE CARDS and LOWEST PRICES.

## **TEXALO MANUFACTURING CO.,**

NELSON ROAD, SOUTH SHORE,  
BLACKPOOL, LANCs

## **"CASSO"**

*The Latest and Greatest Invention.*

CLEANS IMMEDIATELY, with little exertion,  
Baths, Paint work of all descriptions, Brass, Silver,  
Tiles, Marble, Mortars and Pestles, &c.

*Samples Free.*

## **CASSON'S COLD CREAM**

DELICATELY PERFUMED.

In Bulk, Pots or Tins.



## **CASSON CHEMICAL CO., LTD.**

11 CRAVEN HILL, LONDON, W. 2.

Phones: PADDINGTON 321, 322 and 3518.



**FREDK. FINK & CO.,**

10 &amp; 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES.**—Gums Arabic and Tragacanth as imported or finely powdered.**SHADEINE**

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial Size 8d., per post 10d.; Medium, 1/4, per post 1/7; Large, 8/6, per post 4/-; 8d. size, 6/- doz.; 1/4 size, 12/- doz.; 8/6 size, 22/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

**AUG. LEVERMORE & CO. Ltd.,** 8-10 Ct. St. Helens, LONDON, E.C.

Telegrams: LEVERMORE LONDON. Telephone 4613 Central.

**CAPSICUM WOOL**

Attractively Packed. 7/9 per dozen Boxes.

PREPARED BY

**THE GALEN MANFG. CO., LTD.**

Wilson St., New Cross, London, S.E. 14.

**John E. Raworth,**

Chartered Patent Agent,

The Old Mansion House,  
73 Cheapside, E.C. 2.

AND

Queen Anne's Chambers,  
Westminster, S.W. 1.**CACHETS**

WEPS.

The Best Quality.

WEST-END PHARMACY SUPPLY

(R. Rios)

231 REGENT ST., LONDON, W. 1.

Cachets. All sizes, plain and embossed. Orders accepted for coloured &amp; printed.

**BLENOSAN CAPSULES**

(Kava-Kava &amp; Santal Compound).

Medicinal Capsules. Fine Chemicals.

**CACHETS "FINOT"**

(White or Coloured),

With Inscriptions in any desired tint: also Plain or Embossed.

"Beautifully made and the inscriptions give them a distinction all their own."—C. &amp; D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.  
In 17 Sizes, to fit the various types of Cachet Machines.**DISINFECTANTS**

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids

**HENRY ELLISON, LTD., CLECKHEATON, YORKS****J. W. PINDAR & CO. Druggists' Engineers.**  
**PILL MACHINERY (Hand & Power).**

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters, Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Percolators, Ointment Mills, Drug Mills, "Eternite" Ovens, &amp;c.

Other Machinery for Manufacturing Druggists and Chemists.

**BROCKLEY, LONDON, S.E.**Telephone:  
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The World-famed Enamel for Grey &amp; Faded Hair. Absolute, safe and natural.

3/6 size, 37/- doz.; 6/6 size, 68/- doz.;  
12/6 size, 132/- doz.

Largely Advertised. Ask your Wholesaler.

THE BRILLIANIA CO., 37 Sloane Street, S.W. 1.

For GUARANTEED  
**ATOMIZERS and SPRAYS****THE DEVILBISS Co., LIMITED,**

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**CHELTINE FOODS CO., CHELTENHAM.****DIABETES****FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.**  
Also Foods for Anæmic, Dyspeptic, Invalid and Aged People and Infants. Highly recommended by Medical Profession.**INFANTS' FOODS packed under Chemists' "OWN NAMES."**

Terms and all particulars on request.

TO  
SELL  
MERELY  
SHOW**Quin-Quenna**

BETTER THAN A SHAMPOO

More heavily advertised than ever, and sales still easier, now recognised by ladies &amp;c. that it is the only preparation that puts a "wave" in the Hair, besides growing and beautifying it.

4/- PER  
DOZ.A 6 dozen decorated carton with  
one dozen Bonus to your address  
at once Carriage Paid

P.A.T.A. EACH 6/-

43%  
P.A.T.A. PROFIT  
FOR YOU

CHRISTY'S Old Swan Lane, LONDON, E.C.4.

**ALL CHEMISTS  
SHOULD STOCK****ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 1 1/4d. each; Boxes of 13 packets, 1/6.

Wholesale Prices on application. Sample Box 1/6.

D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

**Pyrogallic Acid Gallic Acid**Manufactured by **J. L. ROSE,**

At ABBEY ROAD, BARKING, LONDON, E.

Wholesale and Export only.



**FOOD CONTAINERS.**

MANUFACTURERS OF ALL CLASSES OF  
CYLINDRICAL MAILING CASES,  
FOOD CONTAINERS & PACKING BOXES,  
IN CARDBOARD AND TIN.

**EELES, WALKER & CO.** (Controlled Establishment)

Telephone—Central 5324 and 5.  
(Pt. Branch Exchange)

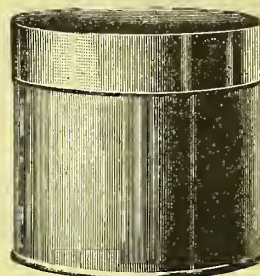
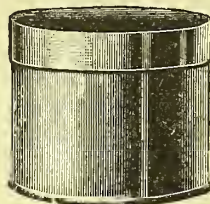
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Crescent, BIRMINGHAM.

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Telegrams—"Mussared, Cent, London."

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"ELSWAL."



Telegrams—  
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**FUSEL OIL**

FIRST - HAND SUPPLIES.

**DE GROOT BROTHERS,**  
Schiedam, Holland.

**COTTON WOOL, 1/6 per lb.**

In 1-cwt. lots. 56 lbs. at 1/6½; 28 lbs. at 1/7  
Carriage paid, cash with order. Wrappers 3/6 extra, returnable.

A splendid wool, perfectly white and absorbent.  
In 1 lb. rolls interleaved. Sample for p.c.

A client writes: "Thoroughly pleased with last lot."

**JAS. Q. MILLS, Chemist, Platt Bridge, WIGAN.**

**FOR SALE.****HARD WHITE BLOCK.**

10 cwt. Redistilled STEARINE, 120/122 M.P.  
3 tons NEUTRAL FAT - 126/128 M.P.

190/- per cwt., or nearest bid.

Box 236/34, Office of this Paper.

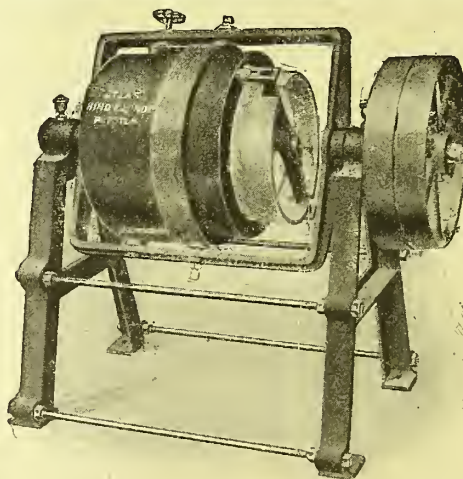
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Plates, Flat or Roll Films, developed, printed, enlarged, retouched, etc. We lay our works out to supply Pharmacists with good work at reasonable prices, with quick dispatch. Price List on application. Monthly accounts without fuss.

**ARTHUR J. C. LEWIS, The Chemists' Photographic Printers,  
NEW BARNET**

**BALL GRINDING MILLS**

IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED.  
PEBBLE & TUBE MILLS FOR LARGE QUANTITIES.  
FLINT PEBBLES, PORCELAIN, BRASS, STEEL OR  
HARDWOOD BALLS. ALSO SPARE PORCELAIN  
JARS AND CHILLED IRON LINERS SUPPLIED.



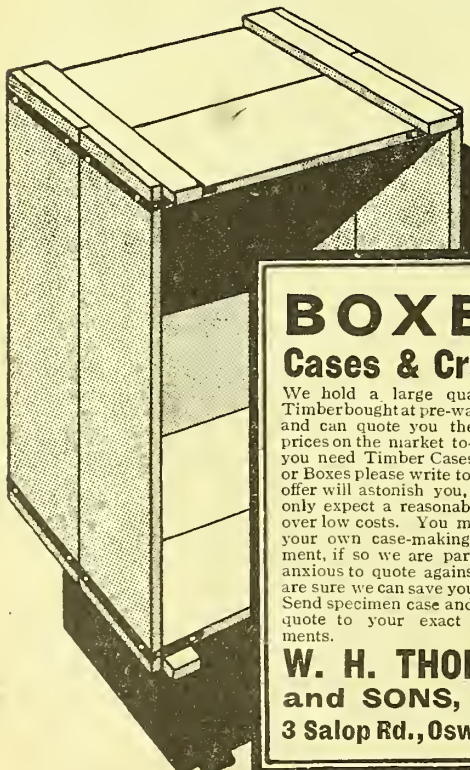
See our previous advertisements.

**BRITISH MADE THROUGHOUT.**

MANUFACTURERS OF MODERN HIGH-CLASS  
CHEMICAL AND EXPLOSIVES MACHINERY.

**HIND & LUND, LTD. ATLAS  
WORKS, PRESTON.**

Telegrams: "Atlas Preston." Telephone: No. 125. (3)



**BOXES  
Cases & Crates**

We hold a large quantity of Timber bought at pre-war prices, and can quote you the lowest prices on the market to-day. If you need Timber Cases, Crates or Boxes please write to us—our offer will astonish you, for we only expect a reasonable profit over low costs. You may have your own case-making department, if so we are particularly anxious to quote against it—we are sure we can save you money. Send specimen case and we will quote to your exact requirements.

**W. H. THOMAS  
and SONS, Ltd.  
3 Salop Rd., Oswestry**



**LONSDALE & THOMPSON (1916) Limited****58 Corporation Street****MANCHESTER**

INVITE INQUIRIES FOR

**FINEST SPANISH OLIVE OIL**

"CREAM" quality  $\frac{1}{2}\%$  Acidity. Casks about 48 galls., **24/-** per gall. London.  
 "IMPERIAL" "  $1\%$  " " " **23/-** " "

Cans (2 in case) 2 galls. each, **28/-** per gall. Manchester.  
 " (4 in case) 1 " **30/-** " " "

BRANCH HOUSES at Glasgow, Bristol, London, Liverpool, Birmingham &amp; Newcastle-on-Tyne.

**C. MELIN & CO.****ESTABLISHED  
1865***7 India Street, Crutched Friars, London, E.C.***supply GLASS AMPOULES, TUBES  
and LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

**DIRECT FROM THE WORKS. :: WHOLESALE & EXPORT.****WOODWARD'S  
GRIPE WATER**

The Proprietors call attention to the value of their Preparation as a safeguard against chills and other similar pre-disposing causes of influenza in infants and young children.

**W. WOODWARD, Ltd.,****79/81 Fortress Road, London, N.W. 5.**

W. WOODWARD, Ltd., purchase their used bottles from customers, and invite communications from members of the trade who may be able to supply them.

The Proprietors desire to express their regrets that restrictions upon supplies in various directions have seriously retarded deliveries of "Gripe Water." Under the improved conditions of Peace, Messrs. Woodward hope to overtake all arrears in the home trade. They regret that their Colonial Customers have been still more inconvenienced.

# Precautions Against Epidemics.

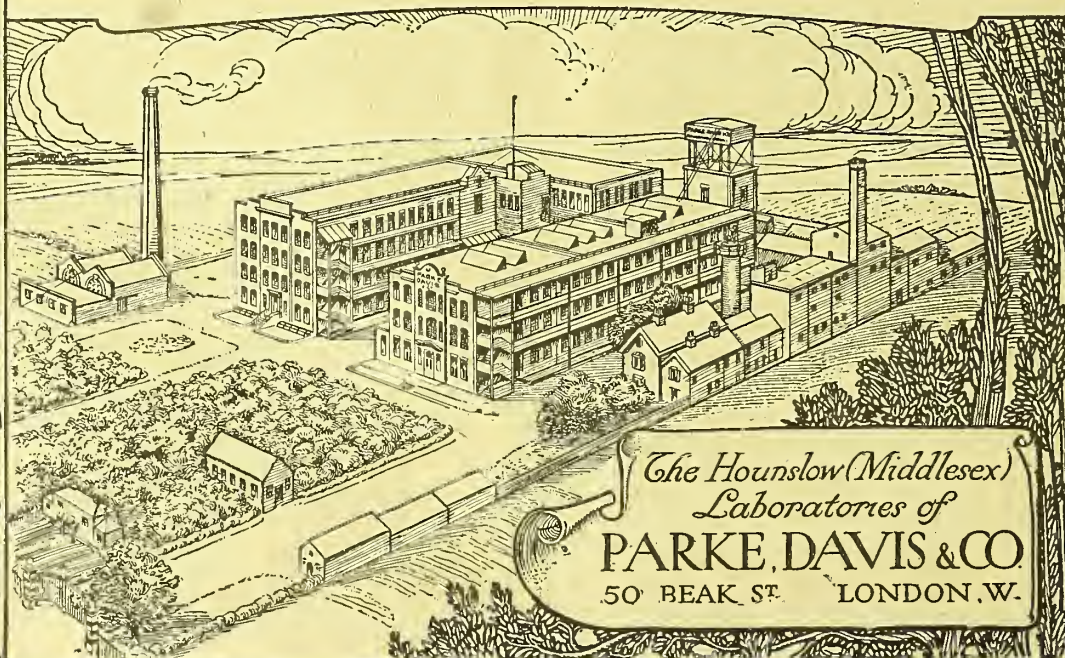
The press has been ringing with advice as to the best safeguards against contagion. One result has been to direct attention to the importance of oral hygiene. In this connection it is impossible to overlook the utility of

## Euthymol TOOTH PASTE

Remind your customers that Euthymol Tooth Paste was proved by Dr. S. Rideal, the originator of the Rideal-Walker test, to be equivalent in germicidal power to a 14% solution of phenol. This result has been independently corroborated, so Euthymol Tooth Paste must be regarded as a preparation of

### PROVED VALUE.

*The minimum profit is practically 5d. per tube.*





# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 22, 1919.

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.** Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED THE MONEY IS TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3917 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

## EARLIER CLOSING FOR PRESS.

**W**ILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

### FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

## CHEMISTS' TRANSFERS.

**Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.**

Telephone Number: City 2283

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

- 1.—LONDON, S.W. (Main Road).—First-class Dispensing and Retail Business; gross receipts exceed £4,000; well-appointed shop, fully stocked; excellent opening for two men with a knowledge of high-class trading.
- 2.—KENT (Suburban).—Old-established Business situate in shopping thoroughfare, and in close proximity to Railway Station; returns last year over £3,000; gross profit between £1,200 and £1,300; double-fronted shop, corner position; comfortable residence; terms to be arranged.
- 3.—LONDON, N.W. (Main Road).—Good-class Business, Retail and Dispensing; net profit £600; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered or lump sum offer.
- 4.—KING'S CROSS (within easy distance of).—Old-established Business in good position in populous district; the net income is £386, and under energetic management can be increased; good house; rent £50; price £600.
- 5.—LONDON, N.W. (Residential Suburb).—Well-established Business; held by Vendor upwards of 25 years; returns, present rate, over £30 per week at fair prices; well-appointed shop, fitted in mahogany; there is a comfortable residence; held on lease; no near opposition; price £850.
- 6.—DALSTON (near).—Ready-money Business; corner position in shopping thoroughfare; returns under Assistant £17 weekly; ample scope for extension; rent £60; sublet £85; held on lease; price £300.
- 7.—LONDON, W.—Good-class Business, Dispensing and Retail, situate in centre of excellent residential locality; returns about £900; gross profit 50 per cent.; well-appointed shop; large residence; held on lease; to effect a speedy transfer no reasonable offer will be refused.
- 8.—SEAPORT TOWN.—Wholesale Business, comprising Surgical Instruments and Druggists' Sundries; gross receipts last year exceeded £11,000, and the average net profit for the past three years, after allowing for depreciation and bad debts, £1,042. Further particulars will be furnished on receipt of a banker's reference.
- 9.—BERKS.—(Attractive Residential Town).—For immediate disposal neglected Business situate in the main shopping thoroughfare, together with the freehold premises, for the sum of £750; good opening for an energetic man.
- 10.—KENT.—Unopposed Business, comprising good-class Family trade with general country Retail; returns average £1,200 per annum; net profit approximately £300; comfortable residence; rent £40; held on lease; price £600.
- 11.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; net profit £900; turnover might be materially extended under qualified management; price £2,500.
- 12.—LINCS.—Busy market town; Mixed Business, with good Optical connection; returns last year £8,400; average net profit for three years £1,147 yearly; commodious premises; Vendor's own property; terms, valuation of stock and fixtures, plus premium for goodwill.
- 13.—WASTED (within easy distance of).—Ready-money Business; established many years; returns, present rate, £1,500 at good prices; moderate rent; long lease; no immediate opposition; price £500.
- 14.—WESTERN COUNTY (Health Resort).—Good-class Business for disposal through death; returns between £1,200 and £1,500, with scope for extension; well fitted shop and large residence; rent £55; for an immediate sale less than the value of stock and fixtures will be accepted.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.  
**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**



# BERDOE & FISH

## VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

1.—MIDLANDS.—Sound progressive Cash Retail in healthy and growing locality; returns over £2,100; net profit £750; handsome modern-fitted Pharmacy; fine position; well stocked; modern built premises; low rent; owner retiring; price £1,500; only cash buyers entertained.

2.—ESSEX COAST.—Select Retail Dispensing and Photographic Business in best position; returns last year £1,370; net profit £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

3.—SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; net profit nearly £450; books well kept; very convenient house; price about £900.

4.—MIDLANDS (Busy Industrial Town).—Genuine Cash Retail and Prescribing Business; returns £1,280 under Manager; net profit £350; plenty of scope; low rent; small house; fine modern-fitted shop, fully stocked; death cause of sale; price £500; strongly recommended.

5.—NOTTS.—Old-established Cash Retail; returns average £50 weekly; handsomely fitted Pharmacy and well stocked; low rent; on lease; price simply valuation, between £500 and £600.

6.—WESTERN COUNTY (Inland Health Resort).—First-class Dispensing and Light Retail for Sale, through death; returns about £1,250; has done much more and can again; good residence; low rent; handsome Pharmacy, heavily stocked; price £1,100 or valuation.

7.—LONDON (Western Suburb).—Light Retail Dispensing and Photographic Business; returns over £1,350; net profit, about £500; large handsomely fitted shop, fully stocked; price £800, or £100 and valuation; trial can be had.

8.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; net profit about £400; well fitted and stocked; small house; price £750, or near offer; recommended.

9.—LONDON (Essex Suburb).—Profitable Light middle-class Cash Retail; practically unopposed; returns over £1,000; net profit £436; books properly kept; well fitted and fully stocked; price £500.

### BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

### LEGAL.

FREDERICK BIRTWELL BENNETT, DECEASED.

WE, the undersigned, Jane Bennett, of Park End Road, Workington, widow, and John Burchell, of No. 1 Lorne Villas, Workington, Executors of the will of Frederick Birtwell Bennett, late of No. 37 King Street, Whitehaven, hereby give notice that as from the first day of March instant the business of the deceased as a Pharmaceutical Chemist and Optician has been sold to Mr. Francis Arthur Clayton, and that the said Executors will not be responsible for any debts in respect of the said business contracted after the said first day of March instant.

Dated this 1st day of March, one thousand nine hundred and nineteen.

JANE BENNETT  
J. BURCHELL.

### TO LET.

SHOP to Let: well fitted, easily convertible; Lewisham district; good opportunity. Apply F. Hanchard, 25 Cromwell Road, S.W. 7.

TO Let, Business Premises with house, London Road, St. Leonards-on-Sea; excellent position in main thoroughfare. For particulars apply Mrs. Angliss, 115 High Street, Rochester.

TO Let, Lock-up Shop; splendid opening for a high-class business in the best residential part of Southport. Apply 38 Park Road, Southport.

### PREMISES WANTED.

FACTORY accommodation for Manufacturing Chemist's business; in or near London; about 10,000 square feet. Address 91/71, Office of this Paper.

### BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CARDIFF (NEAR).—Unopposed Light Retail and Prescribing; no N.H.I.; only open two years; present returns over £1,000, increasing; very profitable; easily worked; scope for Optics, Dentistry, and other side lines; excellent prospects; pleasant situation; valuation terms, about £400; lock-up shop; rent £21. "Byers" (64/20), Office of this Paper.

CHESTER (Genuine Offer).—Old-established (in family 27 years) Light Retail and Dispensing; little N.H.I.; fully stocked; modern shop, with convenient house attached; returns over £1,000 (increasing); scope for Photographics; price for quick sale £600; owner leaving district. Apply Bishop, Chemist, Watergate Street, Chester.

DOVER.—For Sale, by private treaty, good-class Chemist's Business; now in widow's hands; Insurance Dispensing more than pays establishment charges; references and books can be had. Mrs. Forster, Castle Street, Dover.

LONDON, S.W.—Good-class Retail and Dispensing Business for Sale, with growing Optical connection, in residential neighbourhood; returns over £1,200; always increasing; shop splendidly fitted; rent £55; price £500 cash; good private house; separate entrance; electric light, bath; reference before further particulars are given; owner retiring. Apply 66/7, Office of this Paper.

LONDON, S.W. (Residential Locality).—Old-established Dispensing and Retail Business; held by vendor many years; well-appointed shop, fitted in mahogany; there is a comfortable residence held on lease; price to be agreed. "M. I. G." (66/26), Office of this Paper.

NORTH WALES.—Old-established Retail, Prescribing, and Dispensing Business in industrial district; good sale of Proprietarys; returns 1918, £3,238; in hands of present owner's family for 45 years; price for quick sale £1,200, or by valuation. Address for further particulars, "Gwalia," c/o Southall Bros. & Barclay, Ltd., Valuation and Transfer Department, Birmingham.

S. DEVON.—Old-established country Business; Family Retail and Agricultural, with Prescribing; no Optics nor Photography; returns exceed £2,700; main G.W.R. line; good house and shop on lease; full particulars to genuine buyer. Apply 68/1, Office of this Paper.

A GENUINE Business for Sale; mile from centre of busy Midland town; main thoroughfare; thickly populated; rent 8s. 3d. per week clear; living accommodation; N.H.I. scripts for 1918, 3,860; takings, N.H.I. not included, £911; now under elderly management; good Prescriber in short time could do the half more; price £450 or near; part could remain if desired; every investigation. Apply "Flu" (67/18), Office of this Paper.

CASH Retail and Insurance Dispensing Business for Sale, showing returns of over £100 per month at big profits; near City and West End; owner taking larger concern; no use to unqualified man; bankers and Wholesale references given; £485; lowest price; trial allowed. "Greys" (69/9), Office of this Paper.

EXCELLENT opportunity for a young man, qualified or not, to acquire a Light Retail and Dispensing Business on very easy terms; modern premises; single man could let off more than half rent; part cash; rest easy instalments; first-class opening for energetic man. Apply 68/27, Office of this Paper.

FOR Sale, Business of a well-known registered Patent Medicine, which has forged ahead for over 60 years on its intrinsic merits; patronised by Royalty, and possessing Royal testimonials; 90 per cent. of the customers recommend it; fortune to be made; it well advertised; ill-health sole cause of selling; no plant or machinery; distribution entirely through London Wholesale houses and few well-known Retail firms; turnover £2,000 per annum; net profits £1,100, with small employment of female labour; every investigation; hundreds of unsolicited testimonials; what offers? or would entertain partnership. Apply 64/150, Office of this Paper.

FOR Sale, Chemist's Business in healthy suburb of Manchester, within three miles of the centre of the City; disposal necessary owing to advanced years. Apply Moss, Williams & Co., 16 John Dalton Street, Manchester.

GOOD sound Retail and Wholesale Chemist's Business, a few miles outside Manchester; no N.H. Dispensing; good profits; price about £600. Apply 62/15, Office of this Paper.



## BUSINESSES FOR DISPOSAL (continued).

**HEALTH** and business combined are secured by the purchase of a well-established country Pharmacy in a healthy part of Kent; returns exceed £1,200; Family Retail; Prescribing; good house; fullest investigation invited by genuine buyer, who would be introduced to customers. Apply 42/31, Office of this Paper.

**OLD-ESTABLISHED**, good-class Dispensing and Retail; situated in centre of best suburb of West of England City, and producing a net income of about £400 on small turnover; no near opposition; no N.H.I.; low rent; Pharmacy beautifully fitted in mahogany, electric light; owner retiring; price £650 or near offer. Apply 61/12, Office of this Paper.

**SMALL** but progressive Business for disposal in nice suburb of Lancashire town; at present taking over £1,000 per year; fair amount N.H.I. (about 6,000 yearly); no heavy trade; exceptionally good living accommodation; premises on lease; no other Chemist in district; price, value of stock and fixtures and £50 premium (about £400). Apply 68/12, Office of this Paper.

**SOLE** selling and advertising rights with Formulas of Remedies named, with genuine testimonials for cures effected this last five years; a sure fortune in right hands; nothing to equal; cause of selling initial want of capital; offers invited or inquiries. Address "Manufacturer" (59/2), Office of this Paper.

## FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

**EMERY** Cloth (good quality), about 12 reams assorted, Nos. 0 to 2½ (fine to coarse), 45s. per ream net to clear the lot; Sand-paper, about 3 reams assorted, Nos. 0 to 2, 30s. per ream net to clear the lot; carriage paid. Thos. Swales, 24 Butts Court, Leeds.

**FOR** Sale, Pulv. Acid. Boric. Subtil. in 2-cwt. cases, at 71s. 6d. per cwt. ex Works, London. Apply 64/18, Office of this Paper.

**FOR** Sale, Flugel Mineral-water Machine, in excellent order; also a large number of Bottles and Cases. For full particulars apply to Bond & Son, Wootton Bassett, Wilts.

**FOR** Sale, excellent range of Chemist's Shuttles. 18 feet long; 67 Mahogany Drawers, Latin inscriptions, with presses underneath; cost £100 when new; bargain £35. Aimer, Shopfitter, 31 Nethergate, Dundee.

**WHAT** offers for two Nests of Drawers, Chemists' Shop Fittings, mahogany fronts, glass covered lettering; measurements, 9 ft. by 3 ft. 6 in. (60 drawers), and 10 ft. 4 in. by 3 ft. 6 in. (65 drawers); also Counter, mahogany top; length 8 ft. 4 in., width 2 ft.; and several Glass Counter Showcases. For particulars apply Gostling & Co., Chemists, Diss, Norfolk.

**100** TINS and Powder Bottles, from 4 to 16 oz.; also two Carboys, cut stoppers; no dealers. E. Ruston, 10 Carlton Road, Worksop, Notts.

## BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

**EAST COAST.**—Wanted, genuine Business; returns about £1,500-£2,000 annually; must have house attached. Replies in confidence to 69/19, Office of this Paper.

**LONDON.**—Drug Stores or Cash Retail, showing a net profit of £700 or £800; in busy thoroughfare preferred; spot cash will be paid; full particulars will oblige. Apply "Senega" (63/5), Office of this Paper.

**A** GOOD Business wanted in Manchester or district with a turnover of £2,500 upwards; must be thoroughly genuine, and bear the strictest investigation; cash waiting. Fullest particulars in first letter, which will be treated in confidence, to "Ajax" (66/39), Office of this Paper.

**ADVERTISER** is open to purchase on July 1st for cash two or three Businesses situated in Norfolk or Suffolk; turnover between £1,000 and £2,000 each, or neglected businesses in good positions; lock-up shops not objected to. Full particulars now to 69/18, Office of this Paper.

**ADVERTISER** requires Business in the North of England or North Midlands (East excepted); small town preferred, or would entertain a larger town where country residence is within easy reach; a suitable place could be taken over at once; cash available. Apply 68/11, Office of this Paper.

**B**USINESS wanted, with turnover not less than £1,000; good house, etc., attached; must bear strictest investigation; replies treated in confidence, or would entertain Managership with view to succession. "Xaxa" (65/400), Office of this Paper.

**G**OOD country Prescribing and Agricultural Business with scope for increase; easy terms, or Managership with view to succession. Apply 62/16, Office of this Paper.

**L**IGHT Retail; preferably near coast or in nice suburb, but not essential; any size business if scope to do upwards of £1,000 in energetic hands; must have decent house attached; could take over any time; cash ready; to save time please give full particulars of business, living accommodation, neighbourhood, price. Apply Pollard, Park Road, Dawlish, Devon.

**P**HARMACIST (Square man) seeks a Partnership or small good-class Business, with reasonable introduction, on South Coast, or would consider Managership with view to succession; reasonable capital available. Reply "Hexamine" (62/10), Office of this Paper.

**P**HARMACIST requires good Business in large town; Lancashire or Yorkshire for preference; scope for increase. Apply 65/10, Office of this Paper.

**W**ANTED to purchase as a going concern, small Manufacturing or Trading Business; London preferred. Apply 61/22, Office of this Paper.

**W**ANTED, a Light Retail and Dispensing Business; returns about £1,200. Anderson, 16 Lower Road, London, S.E. 16.

**W**ANTED, a Drug Stores or a Business having a good side line, such as Stationery; preferably in a suburb of a fair-sized town. Please give full particulars, which will be regarded as confidential, also as to house accommodation (cash down), 65/37, Office of this Paper.

**W**ANTED by Chemist with limited capital, a small or neglected Business, country preferred, or would accept Managership with view to succession. Reply, with full particulars, to "W. A. P." (65/11), Office of this Paper.

**W**ANTED, small good Cash Business with prospects of increase; price about £500. Apply 64/29, Office of this Paper.

## SALES BY AUCTION.

TO CHEMICAL MANUFACTURERS, WHOLESALE CHEMISTS, DRYSALTERS, AND OTHERS.

MONDAY, MARCH 24th, 1919.  
AT ELVER WORKS, MORETON STREET, STRANGWAYS,  
MANCHESTER.  
at Twelve o'clock prompt.

Sale by Auction of the Stock-in-Trade, Fixtures, etc., comprising 15 cwt. Cotton Wool, 3 tons Molasses, 560 dozen 4-oz. bottles of Castor Oil, 22 tons Soda Crystals, 5 cwt. Honey, 47 gross of Toilet Soap, 2 tons Graphite, 10 gross 14. packets Bleaching Soda, 995 bottles of Tumenol Ammonium, Dental Rubber, Dyes, 4 tons Bi-carbonate of Soda, 28 cwt. Petroleum Jelly, Glue, Machine and Engine Oil, Lump Alum, Tarina, large quantity of Ointment and other Boxes, Cartons, Metal Cigarette Boxes, Glass Bottles of all sizes, Glass and Earthenware Jars, Naphthalene, Cream of Tartar Substitute, Vaseline Pomade, Beeswax, 10 cwt. Gum Arabic, Packing materials, Fixtures, Tables, Trucks, Platform Scales, Gas Fittings, and other property.

ROBERT H. OLDFIELD  
has received instructions from Mr. J. Lever to catalogue and Sell by Auction as above.

May be viewed on Friday and Saturday, March 21st and 22nd, from ten to four o'clock.  
For further particulars apply to the Auctioneer at 25 Bridge Street, Deansgate, Manchester. Telephone, 612 Central.

**MESSRS. TOPLIS & HARDING** will Sell by Auction at their AUCTION ROOMS at 137 CHEAPSIDE, E.C., on MONDAY, MARCH 31st, 1919, a large quantity of

SALVAGE DRUGS,  
including Squamine, Hydragrye, Hemotonine, Dioradin, Hectine, Histogenol, Iodone Robin, Bromine Robin, Peptonate de Fer, Sedol, Ether Pur., Medicinal Glass Ampoule, Adrenaline, etc., etc.  
Also a large quantity of SOAPS, CANDLES, etc., including 15 tons ASSORTED SOAP TABLETS, also 15 tons BAR SOAPS, 250 cases of PARAFFIN WAX and LIME LIGHT CANDLES, 100,000 Saccharine Tablets, also a quantity of Block Chocolate.

Catalogues may be obtained upon application to the Auctioneers, 28 Old Jewry, E.C. (and at Manchester).



## AGENCIES.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**DUBLIN CITY** firm, old-established connection amongst Wholesale trade, at present representing leading Manufacturers, highest references, open to undertake Agency for Ireland for first-class house. Apply 45/29, Office of this Paper.

**EUROPEAN COUNTRIES AND AFRICA.**—Buying Agents wanted for Antiseptic and Medicinal Drug, Iglodine; exclusive agencies; good terms. The Iglodine Co., Ltd., Newcastle-on-Tyne.

**INDIA, BURMA, AND CEYLON.**—Experienced Representative, with many years' experience of Indian markets, personally acquainted with all the European and Indian Merchants, desires Sole Agencies for Drugs, Chemicals, Pharmaceutical Preparations, Sundries, etc.; advertiser, at present in England, has excellent connections, and invites replies, in strict confidence, from well-known Manufacturers who are desirous of extending their business in the East. Apply 69/5, Office of this Paper.

**PORTUGAL.**—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug products desires to represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

**NEAR EAST.**—Gentleman, thoroughly acquainted with traders and languages of the Near East, with many years' travelling experience, who leaves in May for Serbia, Greece, Palestine, and Syria, establishing himself in Constantinople, is desirous to represent as sole Agent a first-class Drug and Chemical firm; good references. Write 65/26, Office of this Paper.

**B. G. JACK & CO.**, an established firm; are open to represent Manufacturers of Proprietary and Pharmaceutical preparations in India, Burma, and Ceylon; references, the National Bank of India, Ltd., Bombay; head office, Victoria Building, Fort, Bombay.

**FIRM** of Paint Manufacturers, making several good lines for the spring cleaning trade, would like to hear from Travellers who desire to handle these goods on commission; see advertisement in this issue. Texalo Manufacturing Co., Trafalgar Square, Blackpool.

**GENTLEMAN**, first-class organising Salesman, wants good Agency in either Chemist's Sundries, Toilet goods, Medicinal specialties, Foods, Rubber goods, Surgical Dressings and appliances; splendid connection South, West of England, and S. Wales; competitive lines only. Full particulars in first instance, 65/24, Office of this Paper.

**READY MARKET FOR BRITISH GOODS.**—Active business man (Anglo-Dane), many years' commercial experience in London, now preparing extensive business trip throughout Scandinavia, will be glad to hear from firms desiring Representation, or having goods to offer suitable for these countries; sales effected on commission, agency basis, or for cash. Address "Principal," Anglo-Scandinavian Trading Company, 4 Abinger Road, London, W. 4. Phone: Chiswick 564.

**SOAP, PERFUMERY, AND TOILET PREPARATIONS.**—Good Dutch house seeks Agency for first-class goods in above; splendid connection amongst the best Chemists, etc., in Holland; correspondence can be in English. Apply in first instance, 66/1, Office of this Paper.

**THE ANGLO-FRENCH DRUG CO., LTD.** desire to inform the trade that they have opened a Branch in Paris with large stock rooms. They are therefore now in the position to offer their unique experience in introducing British goods and Specialties into France, and would be pleased to receive proposals as to sole Agencies. The Company would also act as buyers in France for British and Colonial firms on a small commission basis. Proposals, etc., which will be treated confidentially, to be sent to the Head Office, Gamage Buildings, Holborn, London, E.C. 1.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

## RETAIL.

**WANTED,****A CHEMIST**

**FAMILIAR** and practical in manufacturing either Emulsion or Celluloid for **CINEMATOGRAPH FILM**, to be manufactured in America. Liberal salary and expenses paid. State past experience fully.

Write:

**Powers Film Products Company,**  
501 FIFTH AVENUE,  
NEW YORK CITY,  
U.S.A.

**A BERDOVEY, NORTH WALES.**—Wanted, a qualified Manager for a Light Retail and Dispensing business; house attached; permanency; undeniable references essential. Apply, with full particulars as to experience, salary, etc., to Lloyd, 267 King's Road, Chelsea, S.W. 3.

**AYLESBURY.**—Unqualified Assistant (outdoors) for Dispensing and brisk Counter; short hours, closing 7 o'clock Sunday, and Thursday half day free; state usual particulars. A. G. Wright, Chemist, Aylesbury.

**BATH.**—Competent Assistant required for Branch; good-class Dispensing establishment. Usual particulars with salary required to Williams, 25 Wellsway.

**BATH.**—Assistant (qualified preferred) for first-class Dispensing business; must be experienced and have highest credentials; will be required to take full share of work and duty; salary £5 per week. Apply 67/34, Office of this Paper.

**BERKS.**—Wanted (April or sooner), Assistant, with Counter and Dispensing experience; male or female; good wages, short hours; permanency. Full particulars in first letter, age, height, photo if possible, and references, 64/21, Office of this Paper.

**BOURNEMOUTH.**—An Assistant (lady or gentleman), with Dispensing experience. Please state full particulars, with salary required (outdoors), S. Hardwick, Poole Hill, Bournemouth.

**BOURNEMOUTH.**—Junior or Improver for Light Retail (outdoors); hours 9 to 7; time for study can be arranged, Pharmacy classes in the town. Apply, with particulars of experience, salary required, etc., to J. K. Matterson, The Arcade, Bournemouth.



**BRIGHTON.**—Wanted (immediately), qualified or experienced male Assistant for Dispensing and Retail business; no Insurance work; indoors preferred; state age and salary required. F. Adams, 56 Marine Parade, Brighton.

**BRIGHTON (outdoors).**—J. Colby & Co., 101 Western Road, require a competent male Assistant well practised in Dispensing and Counter work. Applicants asked to apply by letter only, and state in first letter age, height, salary required, and where experience has been gained; also to enclose photo if possible.

**BRISTOL.**—Wanted, unqualified or Junior Assistant for Light Retail and Dispensing business. Apply, stating salary required and usual particulars, to P. Hall, 97 Ashley Down Road, Bristol.

**BRISTOL.**—Wanted, Junior Assistant. State age, height, experience, salary required (outdoors), easy hours, Weston Roberts, 9 Westbury Hill, Westbury-on-Trym, Bristol.

**BRISTOL.**—Manager for Cash business; reasonable hours, no Sunday duty; outdoors; must be used to a quick trade; wages £4 15s. Apply, with usual particulars, to 67/26, Office of this Paper.

**CARDIFF.**—Junior Assistant for Retail (outdoors); knowledge of Photography. Send references, salary, photograph to Ducks', Ltd., 7 James Street, Cardiff.

**DONCASTER.**—Required (immediately), a qualified Assistant for a General Family and Dispensing business conducted on progressive lines. Apply, giving full particulars as to age, height, experience, salary required (outdoors), etc., to M. H. Stiles & Son, The Rexall Pharmacy, Doncaster.

**DOVER.**—Junior Assistant wanted at once for good-class business; reasonable hours; competent Dispenser. Apply, stating age, height, salary required (outdoors), and where experience has been gained, to Mr. Ewell, Chemist, 37 Townwall Street, Dover.

**EASTBOURNE.**—Unqualified Assistant for good-class Retail and Dispensing business; Counter experience essential. Apply, stating references and usual particulars, Senior, Chemist, Eastbourne.

**LEICESTER.**—Unqualified Assistant required; permanency; applicants must have had good Dispensing experience. "Leicester" (91/671), Office of this Paper.

**LIVERPOOL.**—Experienced and trustworthy Assistant, unqualified, wanted for Light Retail and Dispensing business. Please send full particulars, salary required, when disengaged, and photo if possible, to R. S. Carrie, Chemist, The Brook, Liverpool.

**LONDON.**—Lady (Minor) required for N.H.I. and assist Counter; previous Retail experience not essential. State salary required (non-resident), 62/11, Office of this Paper.

**LONDON.**—Locum required (immediately), lady Minor, for Dispensing and Counter; previous Retail experience not essential. Apply 62/110, Office of this Paper.

**LONDON,** pleasant Northern suburb.—Assistant wanted, good Dispenser (outdoors), in good-class Retail and Dispensing business; special easy hours could be arranged. Send full particulars and requirements to Young & Co., Chemists, New Barnet.

**LONDON, E.**—Good Junior Assistant required for business in working-class neighbourhood; excellent prospects. State salary required, "B. R." (91/670), Office of this Paper.

**LONDON, N.**—Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensing. Apply, with full particulars of experience, names of references, when disengaged, and salary required (in- or out-doors), "Chemist," 300 Amburst Road, Stoke Newington, N. 16.

**LONDON, N.**—Junior or Improver (outdoors), for quick Retail and Dispensing business. Apply, stating salary required and usual particulars, "Xaxa" (66/28), Office of this Paper.

**LONDON, N.E.**—Manager wanted; knowledge Photography; outdoors; one whole day holiday weekly, no Sunday duty. Long, 197 Lower Clapton Road.

**LONDON, N.W.**—Comfortable berth for qualified Assistant; age 50-60; active and capable; permanency. State salary required, "K. R." (91/673), Office of this Paper.

**LONDON, S.E.**—Wanted, an Assistant; outdoors; permanency; good Counterman, and knowledge of Photography. Apply by letter, stating full particulars, age, experience, salary required, and when disengaged, to S. W. Rumsey & Son, 535 Lordship Lane, S.E. 22.

**LONDON, S.W.**—Junior Assistant required for good-class Family business; outdoors. Full particulars, age, experience, salary required, and photo if possible 65/30, Office of this Paper.

**LONDON, S.W.**—Wanted, unqualified Assistant for front Counter in high-class Family Pharmacy; must be able to dress windows, have good appearance and address. If application by letter state full particulars, age, height, married or single, experience, when disengaged, salary required, to Toyne, 26 High Street, Putney.

**LONDON, S.W.**—Qualified Salesman; reliable, energetic, and methodical; £325 to £350 to suitable man. W. Bennison, 133 King's Road, Chelsea, S.W. 3. 'Phone, Ken, 2832.

**LONDON, S.W.**—Evening Assistant; qualified; good Counterman and reliable Dispenser; each Thursday 6 till 8 o'clock, and alternate Sunday 6 till 8 o'clock; near Putney Bridge. Goodall, 66 Lower Richmond Road, Putney.

**LONDON, S.W.**—Experienced Assistant (unqualified) required for good-class Dispensing business; must have had good Counter experience. Apply, with particulars, 67/2, Office of this Paper.

**LONDON, W.**—Junior Assistant required (outdoors), with knowledge of Dispensing. State age, salary required, and usual particulars by letter to John Atkins, Chemist, 109 Queen's Road, Bayswater, W. 2.

**LONDON, W.**—A qualified Dispenser. Apply by letter, stating age, experience, and salary required, Squire & Sons, Ltd., 413 Oxford Street, London.

**LONDON, W. 1.**—Wanted (immediately), an experienced and capable Assistant. Apply personally, or by letter, to J. Munro & Co., 273 Regent Street.

**MANCHESTER.**—Experienced lady Dispenser; able to assist at the Counter. State full particulars and salary required to 65/5, Office of this Paper.

**MANCHESTER.**—Branch Manager; qualified. Apply, with usual particulars as to references, salary, etc., to David Dickson, 716 Ashton New Road, Clayton, Manchester.

**MANCHESTER.**—Wanted (immediately), qualified Manager for Branch; good Counterman and Window-dresser; nice shop in middle-class district; very small N.H.I. Apply, with full particulars, age, experience, salary expected, etc., to W. F. Cuttford, Pharmacist, 249 Bolton Road, I.O.H., Manchester.

**MANCHESTER.**—Unqualified Assistant, mainly for Counter work, in high-class Pharmacy; one with highest class experience preferred. State full particulars and salary required, Westmacott & Son, 17 Market Street.

**MANCHESTER DISTRICT.**—Wanted (immediately), for Branch shop, qualified Manager; colliery district; Oash trade; medium N.H.I. Apply, giving full particulars as to age, experience, salary expected, etc., to 67/3, Office of this Paper.

**MIDLANDS.**—Elderly qualified Assistant required; permanent and comfortable position. State salary required and when at liberty 91/674, Office of this Paper.

**MIDLANDS.**—Qualified Manager required for large business situate in the centre of a progressive town; must be capable and energetic, and be anxious to go ahead; good salary, and a liberal interest in the profits offered to the right man. State age, whether married, and when at liberty, "N." (91/672), Office of this Paper.

**NEAR MANCHESTER (13 miles).**—Unqualified Assistant wanted (outdoors) for Mixed business and N.H.I. Dispensing. Salary, etc., to S. Hall & Son, Chemists, Littleborough.

**NOTTS.**—Unqualified Assistant for Light Retail and Photographic trade; state full particulars. Apply "Midland" (65/34), Office of this Paper.

**SHEFFIELD.**—Qualified Assistant to Manage Branch. Full particulars, age, experience, salary required, etc., 69/16, Office of this Paper.

**SOUTH COAST.**—Smart, young, and energetic qualified Assistant required; knowledge of Optics and Photography preferred; good sound progressive position; permanency; full particulars. Apply 67/37, Office of this Paper.

**SOUTH OF ENGLAND.**—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.



**STAFFORD.**—Lady Assistant required; quickness, accuracy, and some previous experience with Chemist essential. Please state full particulars of experience and salary required (enclosing photograph if possible) to J. and H. A. Averill, Pharmaceutical Chemists, Stafford.

**SUNDERLAND.**—Wanted, a qualified Assistant; N.H.I. work. State age, references, and wages, J. G. Harrison, pharmacist, 91 Hylton Road, Millfield, Sunderland.

**SURREY.**—Gentlemanly Assistant required for high-class business; good Dispenser essential; permanency; state age, salary required, and when at liberty. Apply "W." (92/71), Office of this Paper.

**TENBY, S. WALES** (English neighbourhood).—Unqualified Assistant; 27/35; outdoors; all-round experience; reasonable hours. Send references, salary, photograph, to Phillips, Chemist, Tenby.

**WALSALL.**—Competent Junior wanted; quick and accurate Dispenser. Apply, with full particulars if possible, enclosing photograph (to be returned), state salary required (outdoors), G. Elliott & Son, Pharmaceutical Chemists, Walsall.

**WESTCLIFF-ON-SEA.**—Unqualified Junior male Assistant wanted for quick Cash Dispensing business; outdoors. Apply, stating experience, wages required, etc., to F. H. King, 178 Hamlet Court Road.

**WEST KENSINGTON, W. 14.**—Required (at once), a smart unqualified Assistant; outdoors; no Sunday duty. Apply, giving age, experience, salary required, and references, to Wilkinson & Hamilton, Pharmacists, 166 North End Road, West Kensington, W. 14.

**WEST OF ENGLAND.**—Manager for brisk branch, doing Light Retail and a little Dispensing; permanency; moderate hours; no Sunday duty; outdoors; qualified man preferred, but not essential. State usual particulars, with salary required, 65/9, Office of this Paper.

**WOODHALL SPA.**—Junior or Improver wanted in high-class Dispensing business. State salary required, experience, etc., to Collins, Chemist, Woodhall Spa.

**YORKSHIRE, WEST RIDING, NEAR BRADFORD.**—Elderly, qualified Assistant required; comfortable berth; easy hours. State salary required and when at liberty, "L. M." (91 675), Office of this Paper.

**A COUNTRY** Chemist requires active young man for outside work; must be acquainted with farm requirements, and have knowledge of general Drug trade; applicant must be steady, industrious, and able to interview; the position is one where good business abilities rather than scientific knowledge are needed. Particulars as to age, salary, etc., to "Melox" 65 36, Office of this Paper.

**A SMART** young lady required (at once, in first-class business for Counter and Stock; must be experienced, a capable Window-dresser, and prepared to take a real interest in her work. Please state salary and usual particulars or call personally, Manager, Sloane Pharmacy, Sloane Square, S.W. 5.

**A N** energetic gentleman to assist generally in a good-class business; good Window-dresser and Counterman essential; in centre of populous town in Kent; applicant need not be qualified, but must have all-round knowledge and experience of the business, and able to produce undeniable reference. Apply, stating salary (outdoors) and usual particulars, "Revilo" (67/19), Office of this Paper.

**A SSISTANT** (male) required for good-class Light Retail business; thorough experience in Dispensing essential. State full particulars as to references and salary to Cattell, High Street, Sutton Coldfield.

**A SSISTANT** wanted (at once), unqualified, outdoors, for Retail and Dispensing; personal interview preferred. Austin, Pharmacist, Hounslow.

**A SSISTANT**, unqualified, for quick Retail and N.H.I. Dispensing (outdoors). Apply, with references and salary required, to J. Patterson, 52 Ilford Lane, Ilford.

**A SSISTANT**, used to good-class business, with a view to partnership or succession. "Pharmacist" (66 30), Office of this Paper.

**A SSISTANT** for South London; used to quick business; Stock, Dispensing, and Counter. In reply please state age, salary, references, etc., 68/21, Office of this Paper.

**A SSISTANT** for good-class Agricultural business in small country town (Gloucestershire); state salary (outdoors), age, height, experience, etc.; partnership entertained with suitable man. "Vox" 66 23, Office of this Paper.

**BRANCH** Manager; qualified. All particulars, wages, etc., to "Tiz" (68/50), Office of this Paper.

**CURTIS & CO.** have vacancy for qualified Dispenser; male. Apply W. J. Jameson, 48 Baker Street, Portman Square, W.

**DISPENSER-SECRETARY** wanted; knowledge of Bookkeeping; must have highest references. Call or write, giving full particulars, age, experience, salary required, etc., Wm. Fox & Sons, Ltd., 111 Bethnal Green Road, London, E. 2.

**ELLWOOD & SON**, Chemists, Leominster, require a good active Assistant, mainly for Counter; good salary for a really good man; usual half-holiday; outdoors; qualification not necessary. Apply, with full particulars, to Ellwood & Son, Chemists, Leominster.

**EXPERIENCED** Assistant (gentleman), chiefly for Dispensing. Dyson & Co., 35 Gloucester Road, South Kensington.

**GOOD** salary in exchange for services of a good qualified man; Assistant kept; N.H.I. Dispensing, quick Retail. London, W.C." (67/15), Office of this Paper.

**IMMEDIATE.**—Unqualified Assistant (outdoors) for Dispensing and Counter; one used to quick middle-class business. State age, height, salary required, send photo if possible, and give references in first letter, to Middleton, Chemist, Nottingham.

**JUNIOR** Assistant, unqualified, wanted for April 10th; must be a good Counterman, also able to Dispense. Apply, with full particulars of previous experience, and salary required, to Mr. Reid, 2 Queen Street, Exeter.

**JUNIOR** or Improver (male) for good-class Dispensing business; short hours; indoors. State experience, references, height, and salary required in first letter (photo if possible), Williams & Smith, Horsham.

**JUNIOR** Assistant wanted for good-class trade; reasonable hours; Devonshire coast. Apply, stating full particulars of experience, age, salary required, to "Vitamine" (67/38), Office of this Paper.

**LADY** Dispenser and Bookkeeper wanted in small country town; state experience and salary required; to live out. Apply Dr. McKean, Ledbury, Herefordshire.

**LIVE** Manager; qualified; £4 10s. weekly and commission; live out; no Sunday duty, week-days 8, Saturdays 9 p.m.; Expeditionary Force, demobilised, preferred. Photo, references, and particulars to Rowcroft, Maidstone.

**LOCUM.**—Qualified lady or gentleman required to take charge of Dispensing Department three or four weeks; May preferred. Latimer, Chemist, 24 Market Place, Loughborough.

**MANAGER** and Junior Assistant required for Family and Dispensing business; S.W. district. Apply, references, salary, etc., 58/6, Office of this Paper.

**MANAGER**, with best West-End experience, with or without view to interest; rooms over; full particulars of experience, references, and remuneration. Apply 67 35, Office of this Paper.

**MANAGER.**—A vacancy will shortly occur in a good-class Retail and Dispensing business in Surrey; every encouragement given to a qualified and enthusiastic man who can show business ability. Apply 67/22, Office of this Paper.

**MANAGING** Assistant for branch, London; unregistered; outdoors; progressive berth; fixed salary and share of profits; no Dispensing or Poisons; no Sunday duty; good Salesmanship and Window-dressing essential; a comfortable permanency for a tactful business man. State age, experience, and salary expected to 62 34, Office of this Paper.

**MESSRS. TIMOTHY WHITE CO., LTD.** Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects, free removal.

**MR. E. T. NEATHERCOAT**, Pharmaceutical Chemist, Weybridge, Surrey, requires a competent Assistant (unqualified) for good-class Dispensing and Retail business. Please send full particulars as to age, experience, references, and salary required, and state when disengaged.

**QUALIFIED** man for Midlands (at once), for at least six months; capable and active for a quick all-round Light Retail and Dispensing business. Full particulars to 64 14, Office of this Paper.



**QUALIFIED Dispenser (Minor)** wanted for London, S.E. district; assist at Counter; capable and accurate. Apply, stating references, salary, and full particulars to "Chemist," 77 High Street, Croydon.

**QUALIFIED Manager**, also unqualified Junior, required for branch Pharmacy in Birmingham; energetic and conscientious workers; house free. Apply, stating age, salary, and full particulars, to Hongh, Chemist, Standley, Warwickshire.

**QUALIFIED Assistant** for good-class county Dispensing and Retail business (outdoors); good references; age over 30. Apply, stating salary required, to 68/18, Office of this Paper.

**QUALIFIED Assistant**; used to middle-class business; permanency. Full particulars and salary required first letter, I. L. Salter, Chemist, The Green, Southall.

**RELIABLE Assistant** wanted; good Counterman and Window-dresser essential; references must bear strictest investigation; permanency and good salary to right man; qualified or unqualified. Apply, stating salary (outdoors), and usual particulars, Oliver, Chemist, Maidstone.

**RELIABLE qualified Assistant** wanted for country Mixed business; healthy and pleasant district in East Yorkshire; prospect of succession to a suitable man. Apply "Radix," o/o Raines & Co., York.

**ROYAL Hospital for Sick Women and Children**, St. Michael's Hill, Bristol.—A part-time Dispenser is required at the above Institution; hours approximately 11 to 4 daily except Sunday; state particulars and salary required. J. E. Smith, Secretary.

**SINGLE qualified man** required for position giving plenty of scope for advancement. State age, salary required, and references, 91/67, Office of this Paper.

**SMART unqualified Assistant** wanted at once; chiefly for Dispensing; very little N.H.I.; short hours; near town. Full particulars, salary required, and photo if possible to Hall, Chemist, Pinner, Middlesex.

**SURGICAL INSTRUMENT BUSINESS**.—Competent man for front shop; must know his work; good character indispensable. Write, stating age, experience, and wages expected, L562, Lee & Nightingale, Advt. Offices, Liverpool.

**THOMPSON & CAPPER, LTD.**, require an Assistant for Leeds; one with a knowledge of Photography preferred. State age, experience, salary required, and enclose photograph, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

**UNQUALIFIED Assistant** wanted; Dispensing and Retail; must be quick, accurate, and reliable. Call or write, giving full particulars, age, salary required, etc., to Wm. Fox & Sons, Ltd., 111 Bethnal Green Road, London, E. 2.

**UNQUALIFIED Assistant**, of good appearance and address; smart Counterman and Window-dresser. State age, height, experience, with references and salary (outdoors), to Kemp, Chemist, Fenton, Stoke-on-Trent.

**WANTED**, qualified Assistant; young and active; outdoors; easy hours; no Sunday duty. Apply, with full particulars, stating age, references, and salary required, to E. J. Kitson, Worcester.

**WANTED**, smart Junior or Improver (at once); gentleman preferred. Apply, giving full particulars and salary required, to Walker, 76 Yorkshire Street, Burnley.

**WANTED** (at once), competent Assistant, qualified preferred, for a good-class Pharmacy; must be trustworthy, reliable. Apply, with references, stating age, height, salary required (outdoors), Tirrell, The Square, Hanley.

**WANTED**, a reliable capable Assistant to Manage a well-established branch business under control of Head Manager; qualified; age 25 to 35; preferred married, and wanting to better himself. Apply 62/29, Office of this Paper.

**WANTED**, Junior for general Retail and Dispensing business; thoroughly reliable and well recommended; also vacancy for a man about 40 to 45 years of age, desiring to settle in healthy seaside resort; knowledge of Photography, and good all-round experience necessary; reasonable hours; no heavy work. Apply with full particulars, stating salary required, to Pearce, Chemist, Newquay, Cornwall.

**WANTED**, reliable Assistant; must be quick Counterman; used to good-class country trade; some knowledge of Photography desirable; easy hours; no Sunday or Bank Holiday duty. State terms (outdoors) and give full particulars, H. T. Roberts, Chemist, Abergavenny.

**WANTED** for Isle of Man, qualified Assistant; young; live out—state terms. Apply 49/26, Office of this Paper.

**WANTED**, a qualified lady Dispenser; Senior Dispenser kept; state age and send photo if possible, also salary required. Apply Messrs. Wyllys, Wyllys & Wey, Surgeons, 25 King Street, Great Yarmouth.

**WANTED**, an Assistant; qualified preferred; must be well recommended. Apply Starkie, 126 Strand, W.C. 2.

**WANTED**, a thoroughly capable Assistant for Drug Stores, with knowledge of Photographic trade preferred; must have excellent references; easy hours. Please give full particulars of experience, salary required, married or single, to Drug Stores, 9 Wickham Lane, Plinmstead, London, S.E. 18.

**WANTED**, Manager, qualified, for Branch; Light Retail and Dispensing. Please state when disengaged and salary required (house attached), Baylis, Malvern.

**WANTED** (at once), lady Dispenser (outdoors) by Doctor for country town in Eastern Counties; salary 2 guineas weekly; state age and experience, and send photo if possible. Apply 66/22, Office of this Paper.

**YOUNG** lady; slight experience preferred; Stock and Counter; easy hours; permanent, and excellent prospects. Write or apply 206 Manor Place, Keunington, S.E.

### WHOLESALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

**MANCHESTER DISTRICT**.—Wet and Dry Room, also Laboratory hands; experienced and junior. State past positions and wage required, 53/36, Office of this Paper.

**MIDLANDS AND NORTH**.—Competent Representative, with Wholesale connection, required for leading firm of Manufacturers of Chemist's Sundries and Toilet requisites. Write fully, 93/36, Office of this Paper.

**ADVERTISING Manager** required by firm of Manufacturing Chemists making an important invalid food and successful Pharmaceutical preparations; position is a new one, and offers excellent prospects; knowledge of Pharmaceutical business, medical advertising, experience in design of display material, copy writing, public press advertising, and organising ability are the desirable qualifications for the post. Letters of application should be in applicant's own handwriting, giving fullest particulars of education and experience, age, and starting salary required should be stated. Apply "W. E." (89/26), Office of this Paper.

**ASSISTANT**. Minor qualifications, required immediately; good business training essential; preference given to person having had experience with Surgical Instruments; plenty of scope and good prospects for suitable candidate, who would be required to supervise the working of a department. Apply, giving full particulars as to age, experience, salary required, etc., 86/16, Office of this Paper.

**ASSISTANT**, well acquainted with small packed goods, good Stockkeeper, to supervise and to travel; young single man essential owing to housing difficulties. Full particulars to Folkards, Retail and Wholesale Chemists, Pavement, York.

**COMPETENT Pill and Tablet Maker**. Apply, with particulars of experience, to Corbyn, Stacey & Co., Ltd., 673 Commercial Road East, London, E.

**COSTING Clerk** wanted; capable and thorough, and with good knowledge of the Drug trade. Give full particulars of experience, and state salary required, Goodall, Backhouse & Co., Leeds.



**ENGINEER**, Fitter, and Turner for maintenance and erection of tablet machinery, punch and die making, and repairs. State experience and wages required, 92/14, Office of this Paper.

**GENTLEMAN** (30-35) as Chief Clerk in London Export Druggists, with thorough knowledge of office routine; experienced in foreign correspondence in connection with shipping trade and in control of staff; good organiser; liberal salary and good prospects. Apply, stating fullest particulars and commencing salary required, to 93/31, Office of this Paper.

**LABORATORY Assistant** wanted (gentleman); well up in Toilet and Packed Goods. Please furnish full particulars, experience, salary expected, etc., Carmol, Ltd., Washington Street, Birmingham.

**LABORATORY** hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

**LABORATORY** Hand required by London firm for Tincture and Press work; there is also a vacancy for a Tablet Maker. Apply "Acenite" (92/62), Office of this Paper.

**LADY** wanted, with knowledge Chemistry, to test flour, etc. (baking and usual methods), also other responsible work. Apply 56/34, Office of this Paper.

**MALE** or female Assistant wanted, holding the Minor qualification; inventive and mechanical instincts would be of immense assistance in filling the vacancy. Apply, stating age, salary required, previous experience, and enclose photograph (to be returned), to 91/73, Office of this Paper.

**QUALIFIED** lady, thoroughly conversant with Analytical work, B.P. Standardisations, Analysis of Chemicals, Water Analysis, etc. Apply, stating experience and salary, to 93/23, Office of this Paper.

**REPRESENTATIVES** wanted to carry samples of Surgical Dressings on commission only; part or whole time. Give full particulars, stating ground covered to 82/72, Office of this Paper.

**SMART** Traveller for small progressive Manchester Druggists' Sundries firm. State age, experience, and salary required, 62/18, Office of this Paper.

**STRONG** Assistant, about 22, for London Export Druggists, with good knowledge export Patent Medicines; preference given to one with some experience of Sundries. Apply 88/15, Office of this Paper.

**TRAVELLER** (young) required by London Wholesale Druggists to call on town medical men and Chemists; previous experience not essential, but must be of good appearance, with some Wholesale or Retail training, and a knowledge of Therapeutics would be advantageous. Apply "Radium" (93/2), Office of this Paper.

**TRAVELLERS**, calling on Hairdressers, Chemists, Drapers, Oilmen, etc., to sell Brilliantine, Lime Cream, Perfume, etc. Apply 66/11, Office of this Paper.

**WANTED**, an experienced Bottler and Wrapper for Patent Medicine trade for month or two. State age and wages required, 64/15, Office of this Paper.

**WANTED**, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

**WANTED**, Girls (learners and experienced) for Shampoo packing and filling; permanency. Apply between 9 and 1, Leighton Laboratories, 35 Gray's Inn Road, London, W.C.

**WAREHOUSEMAN** for general work; Wholesale and Retail; young single man. Particulars as to experience, etc., to Folkards, Pavement, York.

**WET** Floor Assistants wanted (at once). Apply Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

## SITUATIONS OPEN.

3s, 6d, for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

(Colonial, Indian and Foreign.)

**CEYLON**.—Assistants, qualified and unqualified, age 22-30, single, wanted for first-class British business; four years' agreement; passage paid; good-class Retail Dispensing and Counter experience essential. Give full particulars of experience to 66/12, Office of this Paper.

**DENMARK**.—Druggist, with full practical knowledge of the manufacture of Technical, Chemical, and Pharmaceutical Products, required by old-established works in Denmark. Offer, with age, experience, and salary required, to "Laborant" (57/21), Office of this Paper.

**FAR EAST**.—One or two qualified Assistants; age 22 to 30; must have had good experience in first-class Retail business; good salary; passage paid out and home on a four or five years' agreement. Address "Export" (65/14), Office of this Paper.

**FEDERATED MALAY STATES**.—Qualified Assistant required; unmarried; three years' agreement; passage paid out and home; must have good health; salary first year £30, second year £32, third year £35 per month; short hours; preference given to one with knowledge of Photography and Optics, but not essential; advancement for good business man. Apply 69/41, Office of this Paper.

**APAN**.—Two qualified Assistants required for first-class Pharmacy in Yokohama; four years' agreement; salary £20 per month first year, increasing to £30; free furnished quarters with lighting and heating; passage paid out and home. Apply, with copies of testimonials and photograph, to M. H. Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

**JAPAN**.—Wanted (immediately), Senior and Junior Assistants, single, qualified, in first-class business at Kobe; easy hours; liberal salary; passage out and home. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

**MOROCCO**.—Assistant for first-class Pharmacy; qualified; must speak and write French; good salary to suitable man; principal will be in London shortly. Apply, with particulars, to C. J. R. Evans Sons Lescher & Webb Ltd., 60 Bartholomew Close, E.C.

**PARIS**.—Capable Dispenser; qualified, and knowledge of French preferred; outdoors; hours 8.30-7, no night or Sunday duty. Write, stating experience and salary required, also send photograph, to Roberts & Co., 5 rue de la Paix, Paris.

**SINGAPORE**.—Wanted (immediately), qualified Assistant; young, single, and sound; passage paid out and home; three years' engagement; monthly salary of \$250, \$275, and \$300 respectively (dollar equals 2s. 4d.); knowledge of Optics preferred, but not essential. Full particulars from J. W. Downie 187 Gairbraid Street, Glasgow.

**STRAITS SETTLEMENTS**.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, £30 per month, second and third years £32 per month, fourth year £35; splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. C. H., Burgoyne, Burbidges & Co., Ltd., East Ham, E. 6.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

### [HOME.]

### RETAIL.

**A GENTLEMAN**, unqualified, desires post as Dispenser, etc.; 30 years' Medical experience; disengaged; excellent references. Apply, stating salary, Edwards, 56 Portsdown Road, Maida Vale, W.

**A POST** as Manager is desired by recently demobilised man; qualified; 32; married; abstainer; permanency. Please state hours and salary, "Chevrans" (64/12), Office of this Paper.

**A DVERTISER** (27); experienced Dispenser and Counterman. "Status" (68/36), Office of this Paper.

**A GE** 30; height 5 ft. 10 in.; 15 years' first-class experience home and abroad; Photography, Optics. "Locum," c/o Cassie & Co., Chemists, 49 Newgate Street, London, E.C. 1.

**A S** Assistant or Manager; 25 years' experience; services available at once. "Nonreg," c/o 39 St. Philip's Avenue, Maidstone.



**A**S Branch Manager; qualified; 40, tall; 11 years with last employers; permanency; disengaged; not London. Sharp, Chemist, St. Neots, Hunts.

**A**S Locum; whole or part of April; qualified; abstainer; experienced. Apply 64/16, Office of this Paper.

**A**S Locum; London and district; reliable; experienced; forward bookings. Chemist, 23a Sinclair Gardens, W. 14.

**A**S Manager with view to succession; age 35; well up Retail, Dispensing, and Photographic; partnership entertained. Apply "Quinine" (65/40), Office of this Paper.

**A**S Manager, qualified, 43, experienced, open to engagement (immediately); Locum or otherwise. Address "Chemist," 96 Princess Road, Moss Side, Manchester.

**A**S Manager or First Assistant (unqualified); 36; married; quick and smart at Counter and Window Dressing; tactful Salesman; used to brisk trade; good Dispensing and Photographic experience; a "keen, competent business man"; disengaged end of March; highest references; Midlands preferred. "Progressive" (66/210), Office of this Paper.

**A**S qualified Manager; capable and reliable; 20 years' London and provincial experience; South Wales preferred. Apply Davies, Ty. Cwrdd, Llwynhendy, Llanelly.

**A**SSISTANT, unqualified, 29, recently demobilised, seeks situation as Dispenser; 12 years' experience; what salary offered? "A. L.," Wilden, Gwynne Road, Upper Parkstone, Dorset.

**A**SSISTANT, unqualified, just demobilised, open for engagement; Dispensing and Counter; particulars and salary. Apply "J. B.," 68 Glenhorn Road, Newcastle-on-Tyne.

**A**SSISTANT, unqualified, experience of Counter, Dispensing, and Photography, seeks engagement in Manchester or district with opportunity for studying; at liberty for immediate engagement or within a fortnight; just demobilised. "Noyna," 73 Skipton Road, Colne, Lancashire.

**A**SSISTANT or Dispenser; whole or part time; good references; 50. A. Davey, Ryhall, Stamford.

**A**SSISTANT, unqualified, seeks appointment any branch of trade; aged 37, married; 12 years' experience in every branch of business, Manufacturing, Retail, and Doctors' Dispensing; just demobilised after 4½ years' service in R.A.M.C. as Dispenser-in-Charge Military Hospital; possesses knowledge of French and Italian; excellent references. Apply 60/6, Office of this Paper.

**A**SSISTANT requires post with Chemist or Dispenser to Doctor; part-time preferred; Cardiff or district. "G. E.," 15 Wellfield Road, Cardiff.

**A**SSISTANT, unqualified, recently demobilised, desires post as a Dispenser for two or three months; Doctor preferred; six years' experience; Shropshire, Herefordshire, or neighbouring counties preferred; age 25, height 6 ft.; state salary. Apply "Sgt.," 1 Temeside, Ludlow, Salop.

**A**SSISTANT, Senior, unqualified, open for engagement. "Assistant," c/o Oliver, Chemist, Maidstone.

**A**SSISTANT; 37; competent, reliable; married; disengaged April 7. Apply 67/27, Office of this Paper.

**A**SSISTANT; best London, West End, and City experience; also Continental; qualified Dispenser. "Specialist" (67/31), Office of this Paper.

**A**SSISTANT desires position, London or district; 18 years' thorough all-round high-class experience; excellent references; disengaged; unqualified. Parsons, 138 High Street, Denham, S.E.

**B**RANCH Manager, to live on premises; qualified; disengaged at any time; married; permanency; London district. Chemist, 83 Gloucester Road, S.W.

**B**OURNEMOUTH.—Part-time, reliable Dispenser; highest references. "Student," 1 Orchard Cottage, Orchard Street.

**B**RIGHTON OR LOCALITY.—Chemist; qualified Manager; Locum or part-time engagement. Please state terms to Benzoine" (66/17), Office of this Paper.

**B**RISTOL OR DISTRICT.—Unqualified; good Dispenser, smart Counterman; tall, young; abstainer; permanent position; disengaged end March. "Energy," c/o 23 Broad Quay, Bristol.

**C**APABLE Assistant (demobilised) desires situation; six years' experience Retail and Dispensing; would consider partnership or management. "T. F.," 22 Chatsworth Road, West Norwood, S.E.

**C**HEMIST'S Assistant, 30, unqualified, will be disengaged March 15; West End experience; Locum or permanency. Write to Mr. M. G. Biroh, 16 Melrose Gardens, Hammersmith, W. 6.

**C**HEMIST'S Manager, 20 years' all-round experience in good-class business, desires berth where initiation and business ability will be acceptable and approved of; disengaged. Apply 66/37, Office of this Paper.

**C**LERICAL; evening work of any kind; terms moderate. Replies to "F. G." (62/21), Office of this Paper.

**C**RY off" engagement; three weeks free July. "Locum," 23 Cuthbert's Terrace, Blackhill, Durham.

**D**EMOBILISED, married; 10 years' experience Assistant; capable of taking charge; Dispenser, Window-dresser, Photography, and Prescribing; some knowledge of Optics; smart Salesman; Sheffield district preferred. Write "Hustler," G.P.O., Coney Street, York.

**D**ISCHARGED Army Dispenser; qualified; eighteen years' experience, London and Continent; fluent French; good Counterman, Truss Fitter. Burrell, 39 Falmouth Road, S.E.

**D**ISPENSER; unqualified; eighteen years' all-round experience with Chemists and Doctors; *qualified in America*; type-writing, bookkeeping. "Indian Gentleman," 61 Clarendon Street, Paddington, W. 2.

**D**ISPENSER, 25 years' all-round experience, just demobilised after 4½ years Dispenser with B.E.F., wants permanency. Address full particulars, stating salary offered, 65/230, Office of this Paper.

**D**ISPENSER; 44; disengaged; married; permanency; 27 years' experience; Bookkeeper, Extractor. Strutt, 2 London Road, Halesham.

**D**ISPENSER, Edinburgh University man (2½ years Navy), age 38, A1, with 16 years' first-class Retail business experience, would like responsible position as Senior or Managing Assistant; excellent references. Apply 62/26, Office of this Paper.

**D**ISPENSER; demobilised; 23 years' experience with Doctors and Chemists; Urine Analysis; steady and reliable; disengaged; 40, single; town or country; Bookkeeper. Apply 62/12, Office of this Paper.

**D**ISPENSER, lady, qualified (Hall), desires post in London Hospital, Doctor, or Chemist; five years' experience, with knowledge of Bacteriology. Apply 59/16, Office of this Paper.

**D**ISPENSER; unqualified; high-class experience; good references; S. or S.W. country preferred; free. Apply 64/37, Office of this Paper.

**D**ISPENSER, qualified, woman, experienced, disengaged shortly. Address 54/26, Office of this Paper.

**D**ISPENSER (lady) requires post shortly with Doctor or Chemist; good experience; thoroughly reliable. Apply 68/14, Office of this Paper.

**D**ISPENSER (46), male, N.H.I., qualified, five years Dispenser-Secretary to busy Doctor, seeks similar position, or would take Locum work where other help is kept. "Disengaged," 119 New Street, St. George's, Salop.

**D**ISPENSER-SECRETARY requires post, Southend; Hall qualification; shorthand, typewriting (100 and 40), bookkeeping; good references; either whole or part time. Miss Yeomans, 167 Brightwell Avenue, Westcliff.

**E**LDERLY Chemist desires to take charge of Branch with unfurnished house; North London preferred; early reply will oblige. Apply 67/21, Office of this Paper.

**G**ENTLEMAN of exceptional ability and experience, qualified, disengaged, is open to correspond with only first-class firms, with a view to Management. Apply 65/17, Office of this Paper.



**G**OOD all-round experience; well recommended; 35; unqualified; Locum or permanency; abstainer. "W." 27 Seymour Road, Rood End, Oldbury.

**J**UNIOR, demobilised, requires work until October; Dispensing and putting up stock with little or no Counter work. Clark, 41 Uppate, Louth, Lincs.

**L**ADY Dispenser and Bookkeeper (Hall) seeks post with Doctor or Chemist in Bristol; willing to assist with Dressings, care of Instruments, etc.; three years' experience; Doctors' references. Apply 65/16, Office of this Paper.

**L**ADY Assistant and Dispenser (Hall); experienced. Apply 65/21, Office of this Paper.

**L**ADY (Hall), good Chemist's Dispensing experience, requires post; state salary and hours. Apply 62/24, Office of this Paper.

**L**ADY Dispenser (Hall), two years' experience, desires post; Doctor or Chemist. "S." 42 St. Andrew's Road, Portlady-by-Sea.

**L**ADY Dispenser (19) desires post with Chemist or Doctor; two years' good Institution experience. Chalmers, 3 Arboretum Road, Worcester.

**L**ADY requires position; thoroughly experienced in office routine, buying, telephone, etc.; can take charge; excellent references. Apply 68/16, Office of this Paper.

**L**OCUM; young lady; unqualified; nine years' experience; Scotland or Midlands; state terms. Apply 65/6, Office of this Paper.

**L**OCUM lady Dispenser; experienced (Hall); disengaged May; Doctor or Institution at seaside preferred. Reply 64/40, Office of this Paper.

**L**OCUM or Emergency Assistant; unqualified; trustworthy; abstainer; good Prescriber; all-round experience; age 52; good references. "Aspirin" (66/18), Office of this Paper.

**L**OCUM or otherwise; age 43; qualified. Hopkins, 11 Oakland Road, Redland, Bristol.

**L**OCUM or Manager; disengaged April. Lynn, 2 Lodge, Sinclair Mansions, W. 12.

**L**OCUM, otherwise; disengaged; 3½ years' reference; all-round experience. 82 Marlborough Road, Romford, Essex.

**M.P.S.** (38); recently demobilised; Branch Manager or otherwise; married; medium height; first-class experience and references. Ross, Chemist, Lowe, Ltd., Wolverhampton.

**M**ANAGER, qualified, married, experienced, accustomed entire control of business, requires similar position good-class business shortly; opportunity acquire business later entertained. Apply 91/9, Office of this Paper.

**M**ANAGER or Managing Assistant, unqualified, 38, desires permanency; 18 years' good-class Dispensing and Counter; careful and thorough worker; disengaged; good references. "Alpha," Ashby House, Hunter's Road, Handsworth, Birmingham.

**M**ANAGER; qualified; 55; active, healthy, good education, business knowledge and references; married, no family; abstainer; excellent Dispenser and Prescriber; London preferred. Apply 65/20, Office of this Paper.

**M**ANAGER, qualified, experienced, reliable, energetic, 16 years as Manager, abstainer, 39, married, desires lucrative permanency. Apply 64/32, Office of this Paper.

**M**ANAGER; 40; qualified; abstainer; used to Agricultural business; with or without view succession; state terms offered. J. Ravenshaw, South Molton, N. Devon.

**M**ANAGER (42), qualified, desires responsible position; locum or permanency; experienced Dental Operator and Sight Tester. Elliott, 163 Camden Road, N.W. 1.

**M**ANAGER; qualified; 38; slightly disabled; reliable and conscientious; disengaged early April. "Chemist," 148 Locking Hill, Stroud.

**M**ANAGER; Drug Stores; Minor; 49; reliable, active; tall; good all-round, experience; best references; disengaged; permanency. Apply 68/5, Office of this Paper.

**M**ANAGER; qualified; quick and obliging; married, tall; good experience; disengaged shortly. Apply "Spray" (69/13), Office of this Paper.

**M**ANAGER; qualified; 30; London experience; disengaged April. Apply 69/21, Office of this Paper.

**M**ANAGEMENT, with view to succession; qualified; married; West-End, Continental, and Hospital experience; French spoken; age 35; disengaged. Apply 62/32, Office of this Paper.

**M**ORNING, evenings, or both; qualified; age 52; active; varied experience; good Dispenser. Chemist, 428 King's Road, Chelsea, S.W.

**P**ART-TIME Dispensing required; Hall; eighteen months military hospital. Requirements and salary offered to Miss Florence Parsons, Bedford House, York Place, W.

**P**ART-TIME; few evenings weekly; state requirements, etc.; interview arranged. Apply 67/24, Office of this Paper.

**P**HARMACIST, age 30, desires position as Senior or Manager; best London and provincial experience; excellent references. Apply Nunquam, 30 Upper Chorlton Road, Manchester.

**Q**UALIFIED (26); married; excellent Dispensing experience; Photography; Managership or Senior; London district. Apply 68/13, Office of this Paper.

**S**ENIOR or Managing Assistant; 42, tall, single; 25 years' high-class Store and Dispensing experience; just demobilised after 4½ years as Dispenser with B.E.F. Apply 65/23, Office of this Paper.

**S**MART unqualified Assistant (26); 12 years' experience; excellent references; married; only those offering first-class salary need apply. "Primus" (67/33), Office of this Paper.

**T**EMPORARY Manager or Locum per day; Liverpool district; elderly. "M.P.S." 88 Trafalgar Road, Liscard.

**U**NQUALIFIED (24); married; N.H.I.; private. State salary, hours (Midlands preferred), "V. A. H." 97 Whitehouse Lane, Sheffield.

**U**NQUALIFIED Assistant, demobilised, 22, six years' experience, requires berth W.R. Yorkshire, Sheffield preferred. Apply 64/28, Office of this Paper.

**U**NQUALIFIED (25), 10 years' varied experience Dispensing, Counter, and Photography, desires change; permanency. State salary offered and hours (Northern Counties preferred), 68/33, Office of this Paper.

**Y**ORKS (West Riding).—Assistant; unregistered; with first-class Manufacturing, Counter, Dispensing experience; capable of taking full charge; permanency or temporary; married. Apply 62/22, Office of this Paper.

**Y**OUNG lady (Hall qualification) requires a good situation in London; competent Dispenser, and accustomed to all branches Retail trade, Counter, and Window-dressing. Apply, with full particulars, to Miss Phillips, 44 Rylands Road, Leominster.

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1s. for 12 words or less; 6d. for every 10 words or less beyond prepaid.

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**ANALYTICAL and Manufacturing Chemist** desires position in good house; excellent references; well experienced in the making and standardisation of all Drugs, Soluble Essences, etc. (own formulæ). Apply 69/6, Office of this Paper.

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**REPRESENTATIVE**, with big connection Midlands and North, is open for another commission; Drugs, Proprietary, or Sundries; 20 years' experience; excellent references. Address "Sales" (68/34), Office of this Paper.

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**TRAVELLER**, with good connection in S. Wales, the Midlands, and northern towns, would like good selling lines on commission; Toilet Preparations, Drugs, or Sundries. Apply 68/25, Office of this Paper.

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**FOR** Sale, 500 gross new round lever-lid Tins; sizes 3½ by 4½ and 2½ by 3½. Apply 58/31, Office of this Paper.

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HONEY, California, about 1½ tons in 60-lb. tins; two tins in each case; offers for any quantity entertained. Replies to 92/35, Office of this Paper.

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(LONDON SECTION)

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(Kindly lent by permission of the Chemical Society)

S. R. TODD, Esq. (Ministry of Labour) will speak on Government Reconstruction Committees and Industrial Chemists.

A. C. J. CHARLIER, Esq. (President of the National Association of Industrial Chemists), will preside.

All Chemists are cordially invited to attend

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HYDRO Extractor; suitable for drying crystals; £7 10s. Apply 66/10, Office of this Paper.

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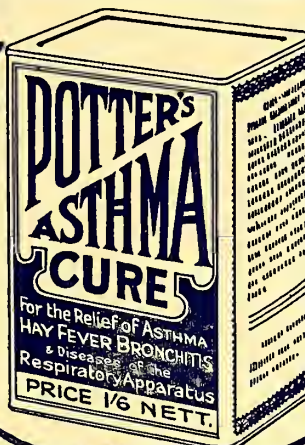
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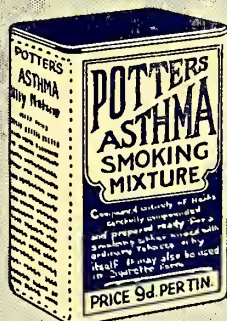
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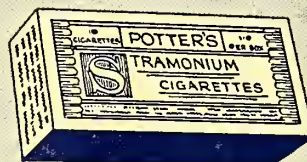
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